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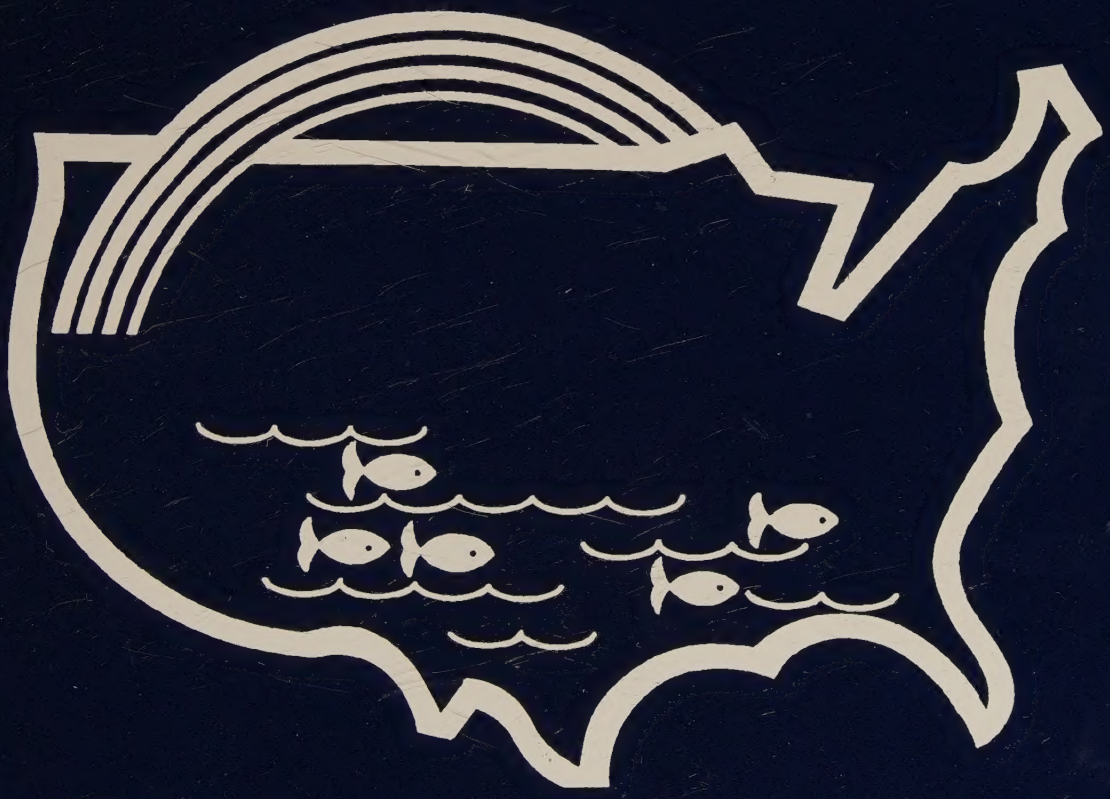

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service

Fisheries of the United States 1999

National Marine Fisheries Service
Office of Science and Technology
Fisheries Statistics and Economics Division

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Silver Spring, Maryland

October 2000

U.S. DEPARTMENT OF COMMERCE

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Preface

FISHERIES OF THE UNITED STATES, 1999

This publication is a preliminary report for 1999 on commercial and recreational fisheries of the United States with landings from the U.S. territorial seas, U.S. Exclusive Economic Zone (EEZ), and on the high seas. This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), with the generous cooperation of the coastal States, collected and compiled data on U.S. commercial landings and processed fishery products.

The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, in cooperation with various States and Interstate Fisheries Commissions, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, employment, prices, production of processed products, and recreational catches are preliminary for 1999. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics and Economics Division of NMFS takes this opportunity to thank states, industry, and foreign nations who provided the data that made this publication possible. Program leaders of the field offices were: Gregory Power, Bob Morrill and Gene Steady New England, Middle Atlantic, and Chesapeake; Scott Nelson, National Biological Service Science Center, Great Lakes States; Linda Hardy, Guy Davenport, Maggie Bourgeois, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Doniey, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham assisting Gary Christofferson of the Pacific State Marine Fisheries Commission for Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows unless otherwise noted: U.S. landings are shown in round weight (except mollusks which are in meat weight); quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census; the value of the U.S. domestic commercial landings is exvessel, in the Review Section on important species, deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator; the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics and Economics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes comments or suggestions that will improve this publication.

Address all comments or questions to:

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Members of the Fisheries Statistics and Economics Division in Silver Spring who helped with this publication were: Daryl Bullock, Tina Chang, Vicky Cornish, Rita Curtis, Terri DeLloyd, Josanne Fabian, Karen Foster, Brad Gentner, Kirk Gillis, Eva Hairston, Laurie Hamilton, Dennis Hansford, Rob Hicks, John Hoey, Deborah Hogans, Mark Holliday, Steven Koplin, Alan Lowther, Sharon Newman, Barbara O'Bannon, Maury Osborn, Liz Pritchard, David Sutherland, Glen Taylor, Margaret Toner, William Uttley, David Van Voorhees, John Ward, and Lelia Wise. A special thanks to Katherine Zecca from our Seattle Office for assisting us in developing a new format.

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Review

U.S. LANDINGS

Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.3 billion pounds or 4.2 million metric tons valued at $3.5 billion in 1999—an increase of 145.1 million pounds (up 2 percent) and $338.6 million (up 11 percent) compared with 1998. Finfish accounted for 84 percent of the total landings, but only 45 percent of the value. The 1999 exvessel price paid to fishermen was 37 cents compared to 34 cents in 1998.

Commercial landings by U.S. fishermen at ports outside the 50 states provided an additional 422.5 million pounds (191,600 metric tons) valued at $134.9 million. This was a 6 percent, or a 26.6 million pound (12,000 metric ton) increase in quantity, but a decrease of $29.7 million (18 percent) in value compared with 1998. The vast majority of foreign port landings (>99%) consisted of tuna landed in Canada, Puerto Rico, American Samoa and other foreign ports. Minor landings also occured for halibut, snappers, sharks, and swordfish.

Edible fish and shellfish landings in the 50 states were 6.8 billion pounds (3.1 million metric tons) in 1999—a decrease of 341.0 million pounds (155,000 metric tons) compared with 1998.

Landings for reduction and other industrial purposes were 2.5 billion pounds (1.1 million metric tons) in 1999—an increase of 24 percent compared with 1998.

The 1999 U.S. marine recreational finfish catch (including fish kept and fish released (discarded)) on the Atlantic, Gulf, and Pacific coasts was an estimated 328.8 million fish taken on an estimated 56.9 million fishing trips. The harvest (fish kept and released dead) was estimated at 135.7 million fish weighing 198.7 million pounds.

WORLD LANDINGS

In 1998, the most recent year for which data are available, world commercial fishery landings and aquaculture were 117.2 million metric tons—a decrease of 5.2 million metric tons (down 4 percent) compared with 1997.

China was the leading nation with 32.5 percent of the total harvest; Japan, second with 5.1 percent; India, third with 4.5 percent; United States, fourth with 4.4 percent; and the Russian Federation, fifth with 3.9 percent.

PRICES

The 1999 annual exvessel price index for edible fish decreased by 2 percent, shellfish increased by 11 percent, and industrial fish remained unchanged when compared with 1998. Exvessel price indices increased for 19 of the 33 species groups being tracked, and decreased for 6 species groups. The bluefin tuna price index had the largest increase (149 percent) while the 'other shrimp' price index showed the largest decrease (54 percent).

PROCESSED PRODUCTS

The estimated value of the 1999 domestic production of edible and nonedible fishery products was $7.3 billion, $27.3 million less than in 1998. The value of edible products was $6.7 billion—a decrease of $51.9 million compared with 1998. The value of industrial products was $607.7 million in 1999—an increase of $24.6 million compared with 1998.

FOREIGN TRADE

The total import value of edible and nonedible fishery products was $17.0 billion in 1999—an increase of $1.4 billion compared with 1998. Imports of edible fishery products (product weight) were 3.9 billion pounds (1.8 million metric tons) valued at $9.0 billion in 1999—an increase of 240.9 million pounds and $840.7 million compared with 1998. Imports of nonedible (i.e., industrial) products were $8.0 billion—an increase of $566.2 million compared with 1998.

Total export value of edible and nonedible fishery products was $10.0 billion in 1999—an increase of $1.3 billion compared with 1998. United States firms exported 2.0 billion pounds (889.6 metric tons) of edible products valued at $2.8 billion—an increase of 297.2 million pounds, and $588.8 million compared with 1998. Exports of nonedible products were valued at $7.2 billion, $720.9 million more than 1998.

Review

SUPPLY

The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent, minus exports) was 10.3 billion pounds (4.7 million metric tons) in 1999—a decrease of 133.3 million pounds (1 percent) compared with 1998. The supply of industrial fishery products was 1.8 billion pounds (836 million metric tons) in 1999—an increase of 295.5 million pounds (19 percent) compared with 1998.

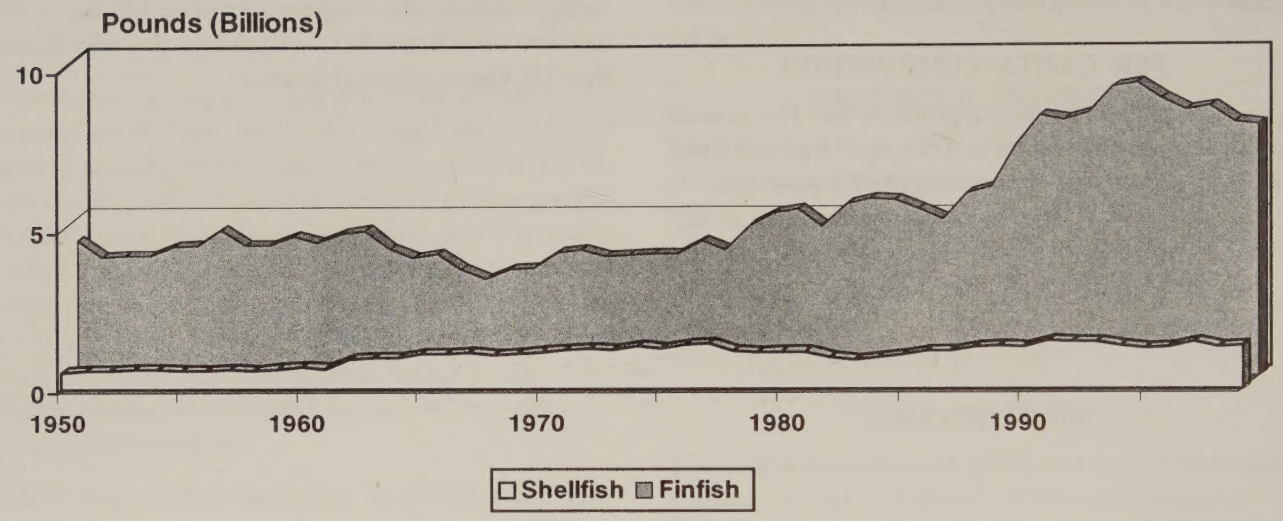
PER CAPITA CONSUMPTION

U.S. consumption of fishery products was 15.3 pounds of edible meat per person in 1999, up 0.4 pound from the 1998 per capita consumption of 14.9 pounds.

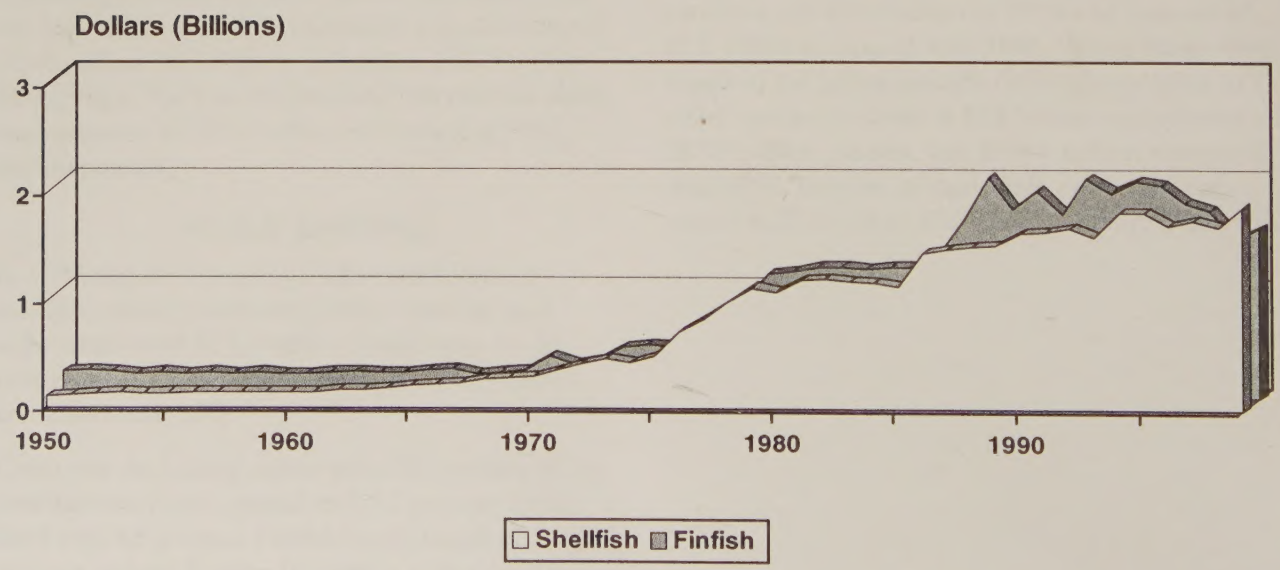
CONSUMER EXPENDITURES

U.S. consumers spent an estimated $52.3 billion for fishery products in 1999. The 1999 total includes $35.6 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); $16.4 billion in retail sales for home consumption; and $326.6 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed $27.2 billion (in value added) to the U.S. Gross National Product.

Volume of Domestic Finfish and Shellfish Landings
1950 - 1999



Value of U.S. Domestic Finfish and Shellfish Landings
1950 - 1999



Alaska led all states in volume with landings of 4.5 billion pounds, followed by Louisiana, 1.5 billion; California, 647.3 million pounds; Virginia, 460.3 million; and Washington, 392.6 million.

Alaska led all states in value of landings with $1.1 billion, followed by Louisiana, $302.7 million; Maine, $265.2 million; Massachusetts, $260.2 million; and Texas, $209.2 million.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Empire-Venice, Louisiana; Cameron, Louisiana; Reedville, Virginia; and Intercoastal City, Louisiana.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Brownsville-Port Isabel, Texas; and Empire-Venice, Louisiana.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 422.3 million pounds. Halibut, shark, snappers, swordfish, and unclassified finfishes also were landed at ports outside the United States.

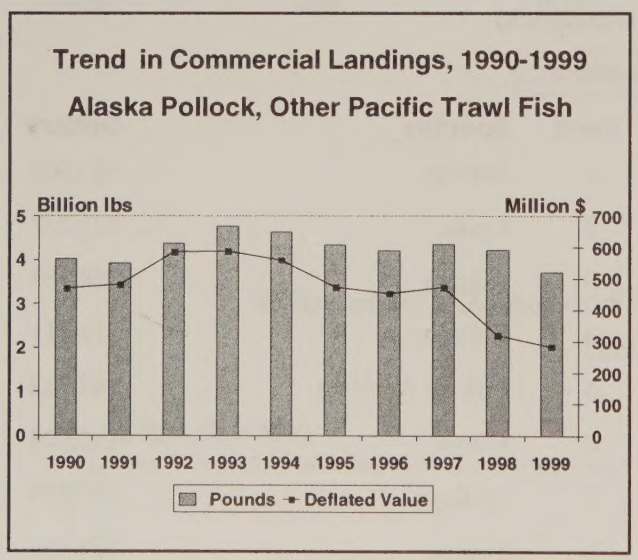
Major U.S. Domestic Species Landed in 1999 - Ranked By Quantity and Value
(Numbers in thousands)

Rank	Species	Pounds	Rank	Species	Dollars
1	Pollock (walleye)	2,325,889	1	Shrimp	560,501
2	Menhaden	1,989,081	2	Crabs	521,237
3	Salmon	814,896	3	Salmon	359,785
4	Cod	545,432	4	Lobsters	352,711
5	Hakes	518,367	5	Pollock (walleye)	162,812
6	Crabs	458,307	6	Clams	135,024
7	Flounders	331,218	7	Scallops	129,350
8	Shrimp	304,173	8	Halibut	124,696
9	Herring (sea)	266,537	9	Menhaden	113,082
10	Squid	258,198	10	Cod	107,170

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH

U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 3.7 billion pounds valued at $322.8 million—a decrease of 12 percent in quantity and a 10 percent decrease in value compared with 1998.

Landings of Alaska pollock decreased 14 percent to 2.3 billion pounds and were 16 percent lower than the 1994 - 1998 5 - year average. Landings of Pacific cod were 524.0 million pounds — a decrease of 6 percent from 556.0 million pounds in 1998. Pacific hake (whiting) landings were 478.2 million pounds (down 5 percent) valued at $18.6 million (down 7 percent) compared to 1998. Landings of rockfishes were 63.2 million pounds (down 10 percent) and valued at $30.5 million (down 8 percent) compared to 1998. The 1999 rockfish landings were 32 percent lower than the 5-year average.



ANCHOVIES

U.S. landings of anchovies were 11.7 million pounds—an increase of 8.3 million pounds (242 percent) compared with 1998. Ten percent of all landings were used for animal food or reduction and 86 percent were used for bait.

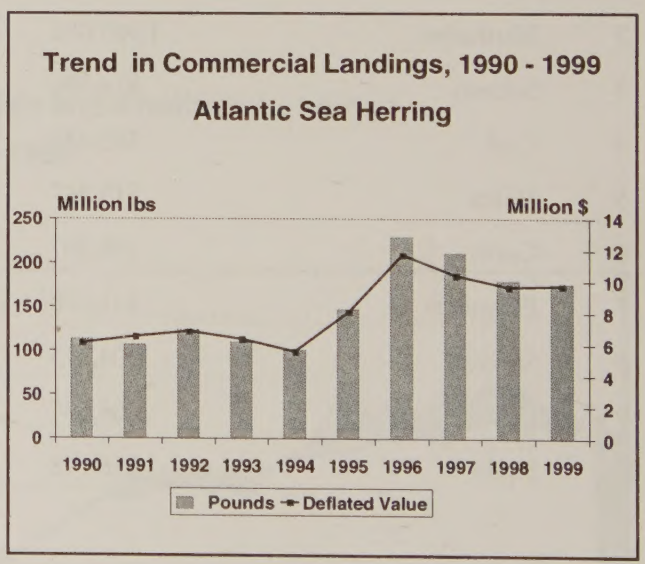
HALIBUT

U.S. landings of Atlantic and Pacific halibut were 80.3 million pounds (round weight) valued at $124.7 million—an increase of 7.1 million pounds (10 percent), and $20.8 million (20 percent) compared with 1998. The Pacific fishery accounted for all but 25,000 pounds of the 1999 total halibut catch. The average exvessel price per pound in 1999 was $1.55 compared with $1.42 in 1998.

HERRING, SEA

U.S. commercial landings of sea herring were 266.5 million pounds valued at $26.1 million—a decrease of 5.5 million pounds (2 percent), but an increase of $4.5 million (21 percent) compared with 1998. Landings of Atlantic sea herring were 175.5 million pounds valued at $11.1 million—a decrease of 4.2 million pounds (2 percent), but an increase of $225,000 (2 percent) compared with 1998.

Landings of Pacific sea herring were 91.1million pounds valued at $15.0 million—a decrease of 1.2 million pounds (1 percent), but an increase of $4.3 million (40 percent) compared with 1998. Alaska landings accounted for 94 percent of the Pacific coast with 85.3 million pounds valued at $12.8 million—a decrease of 1.5 million pounds (2 percent), but an increase of $3.0 million (31 percent) compared with 1998.



JACK MACKEREL

California accounted for 85 percent, Washington for 10 percent, and Oregon for 5 percent of the U.S. landings of jack mackerel in 1999. Total landings were 2.5 million pounds valued at $199,000—a decrease of 984,000 pounds (29 percent), and $110,000 (35 percent)

compared with 1998. The 1999 average exvessel price per pound was 8 cents.

MACKEREL, ATLANTIC

U.S. landings of Atlantic mackerel were 26.6 million pounds valued at $3.6 million—a decrease of 1.0 million pounds (4 percent) and $1.1 million (24 percent) compared with 1998. New Jersey with 20.0 million pounds and Rhode Island with 4.3 million pounds accounted for 92 percent of the total landings. The average exvessel price per pound decreased to 13 cents in 1999 when compared to 17 cents in 1998.

MACKEREL, CHUB

Landings of chub mackerel were 19.2 million pounds valued at $1.1 million—a decrease of 25.8 million pounds (57 percent) and $1.5 million (58 percent) compared with 1998. The average exvessel price per pound was 6 cents, unchanged from 1998.

MENHADEN

The U.S. menhaden landings were 2.0 billion pounds valued at $113.1 million—an increase of 283.4 million pounds (17 percent) and $9.2 million (9 percent) compared with 1998. Landings decreased by 150.4 million pounds (25 percent) in the Atlantic states, but increased 433.8 million pounds (40 percent) in the Gulf states compared with 1998. Landings along the Atlantic coast were 458.6 million pounds valued at $34.6 million. Gulf region landings were 1.5 billion pounds valued at $78.5 million.

Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.

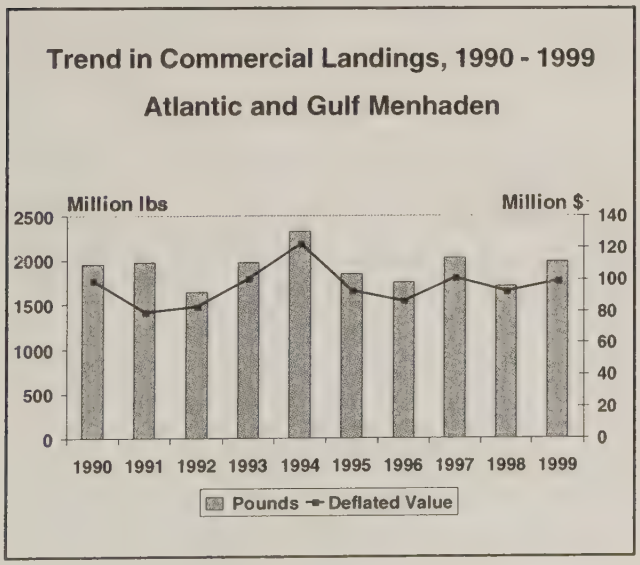
NORTH ATLANTIC TRAWL FISH

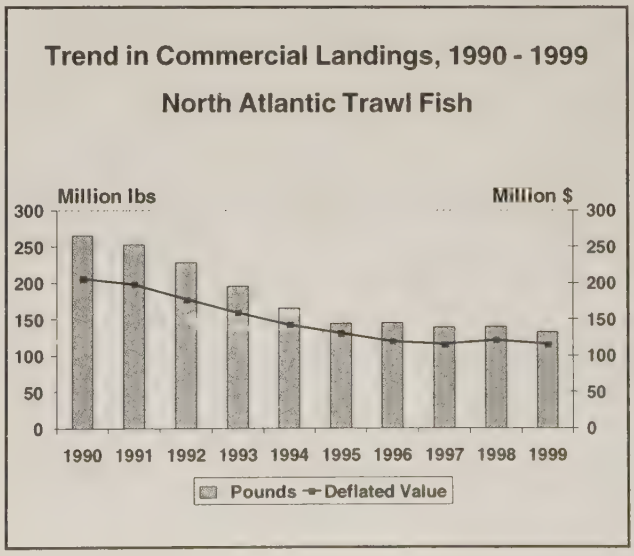
Landings of butterfish, Atlantic cod, cusk, flounders (winter/blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 132.6 million pounds valued at $130.9 million—a decrease of 28.3 million pounds (18 percent), but an increase of $10.4 million (9 percent) compared with 1998. Of these species, flounder led in total value in the North Atlantic, accounting for 50 percent of the total; followed by cod, 18 percent; and whiting, 11 percent.

The 1999 landings of Atlantic cod were 21.4 million pounds valued at $23.9 million—a decrease of 3.1 million pounds (13 percent) and $1.5 million (6 percent) compared with 1998. The exvessel price per pound was $1.12 cents in 1999, up from $1.04 per pound in 1998.

Landings of yellowtail flounder were 9.8 million pounds—an increase of 1.7 million pounds (21 percent) from 1998, and about 59 percent higher than its 5-year average.

Haddock landings increased to 6.9 million pounds (11 percent) and $9.1 million (16 percent) compared to 1998.





North Atlantic pollock landings were 10.1 million pounds valued at $8.4 million—a decrease of 2.2 million pounds (18 percent), but an increase of $339,000 (4 percent) compared with 1998.

PACIFIC SALMON

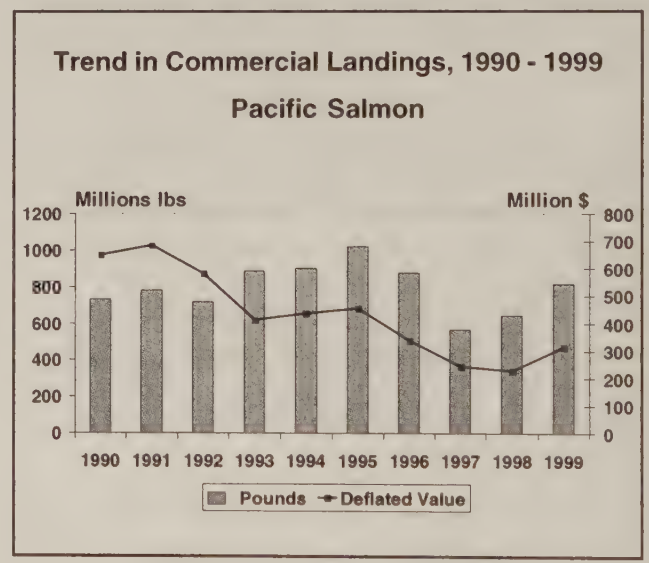
U.S. commercial landings of salmon were 814.9 million pounds valued at $360.8 million—an increase of 170.5 million pounds (26 percent) and $103.3 million (40 percent) compared with 1998. Alaska and Washington accounted for 98 percent and 1 percent of the total landings, respectively. Sockeye salmon landings were 244.3 million pounds valued at $233.3 million—an increase of 115.6 million pounds (89 percent) and $82.5 million (55 percent) compared with 1998. Chinook salmon landings decreased to 15.3 million pounds—down 952,000 pounds (6 percent) from 1998. Pink salmon landings were 382.1 million pounds—an increase of 49.5 million (15 percent); chum salmon landings were 143.9 million—an increase of 13.0 million (10 percent); and coho salmon –a decrease of 29.2 million—a decrease of 6.7 million pounds (19 percent) compared with 1998.

Alaska landings were 801.7 million pounds valued at $346.7 million—an increase of 175.6 million pounds (28 percent) and $104.0 million (43 percent) compared with 1998. The distribution of Alaska salmon landings by species in 1999 was: sockeye, 244.2 million pounds (30 percent); pink, 381.9 million pounds (48 percent); chum, 141.4 million pounds (18 percent); coho, 27.0 million pounds (3 percent); and chinook, 7.1 million pounds (1 percent). The exvessel price per pound for all species in Alaska was 43 cents in 1999—an increase of 4 cents from 1998.

Washington salmon landings were 7.0 million pounds valued at $4.5 million—a decrease of 6.9 million pounds (49 percent), and $4.6 million (50 percent) compared with 1998. The biennial fishery for pink salmon went from 3,000 pounds in 1998 to 203,000 pounds in 1999. Washington landings of chum salmon, 2.6 million pounds (down 64 percent), followed by chinook, 2.4 million pounds (up 24 percent); silver, 1.7 million pounds (up 13 percent); sockeye salmon were 123,000 pounds (down 97 percent) compared with 1998. The average exvessel price per pound for all species in Washington decreased from 66 cents in 1998 to 65 cents in 1999.

Oregon salmon landings were 1.5 million pounds valued at $2.0 million—a decrease of 230,000 pounds (13 percent) and $430,000 (17 percent) compared with 1998. Chinook salmon landings were 1.1 million pounds valued at $1.6 million and coho landings were 474,000 pounds valued at $396,000. In 1999, no landings of chum, pink or sockeye salmon were reported. The average exvessel price per pound for chinook salmon in Oregon increased from $1.39 in 1998 to $1.53 in 1999.

California salmon landings were 4.4 million pounds valued at $7.4 million — an increase of 2.3 million pounds (111 percent) and $4.4 million (147 percent) compared with 1998. Only landings of chinook salmon were reported for the State. The average exvessel price per pound paid to fishermen in 1999 was $1.68 compared with $1.44 in 1998.



SABLEFISH

U.S. commercial landings of sablefish were 48.3 million pounds valued at $97.1 million—an increase of 4.8 million pounds (11 percent) and $5.3 million (6 percent) compared with 1998. Landings decreased in Alaska to 33.3 million pounds–a decrease of 1 percent compared with 1998. Landings increased in Washington to 4.1 million pounds (up 38 percent) and $5.7 million (up 47 percent). The 1999 Oregon catch was 6.6 million pounds (up 69 percent) and $7.8 million (up 67 percent) compared with 1998. California landings of 4.3 million pounds and $4.3 million represent a 36 percent increase in quantity and a 27 percent increase in

value from 1998 The average exvessel price per pound in 1999 was $2.01 compared with $2.11 in 1998.

TUNA

Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 480.4 million pounds valued at $220.8 million—an increase of 922,000 pounds (less than 1 percent), but a decrease of $36.4 million (14 percent) compared with 1998. The average exvessel price per pound of all species of tuna in 1999 was 46 cents compared with 54 cents in 1998.

Bigeye landings in 1999 were 15.2 million pounds—a decrease of 2.4 million pounds (13 percent) compared with 1998. The average exvessel price per pound was $1.82 in 1999 compared with $1.64 in 1998.

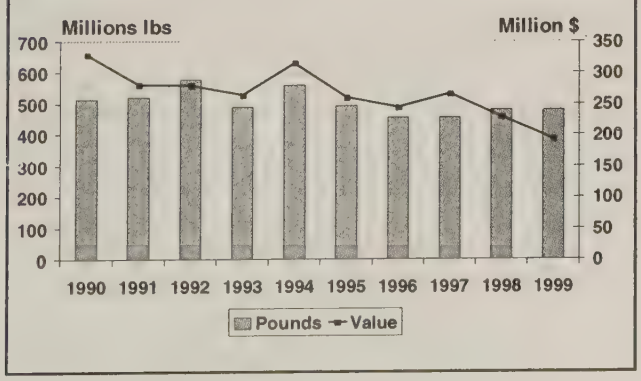
Skipjack landings were 333.6 million pounds—an increase of 61.0 million pounds (22 percent) compared with 1998. The average exvessel price per pound was 31 cents in 1999, compared to 38 cents in 1998.

Yellowfin landings were 96.2 million pounds—a decrease of 40.3 million pounds (30 percent) compared with 1998. The average exvessel price per pound was 50 cents in 1999 compared with 57 cents in 1998.

Bluefin landings were 2.7 million pounds—a decrease of 4.0 million pounds (60 percent) compared with 1999. The average exvessel price per pound in 1999 was $5.79 compared with $2.32 in 1998.

Trend in Commercial Landings, 1990 - 1999

Tuna (U.S. and Foreign Ports)



CLAMS

Landings of all species yielded 112.2 million pounds of meats valued at $135.0 million—an increase of 4.3 million pounds (4 percent), but a decrease of $213,000 (less than 1 percent) in value compared with 1998. The average exvessel price per pound in 1999 was $1.20 compared with $1.25 in 1998.

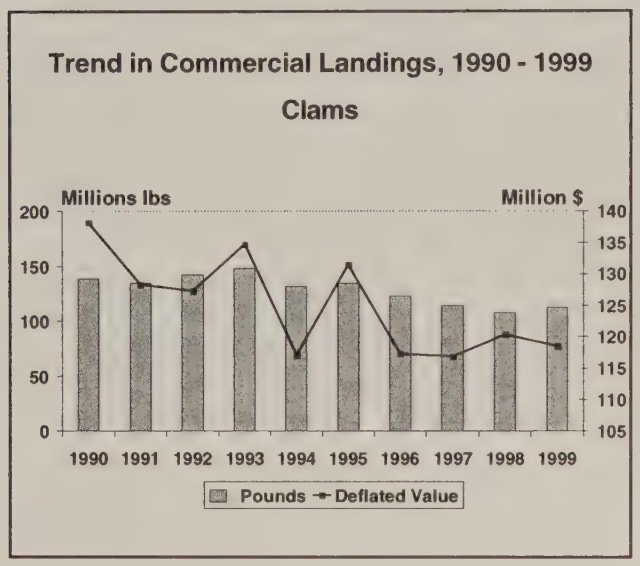
Surf clams yielded 58.8 million pounds of meats valued at $30.4 million—an increase of 4.8 million pounds (9 percent) and $1.2 million (4 percent) compared with 1998. New Jersey was the leading state with 49.3 million pounds (up 10 percent), followed by New York, 4.9 million pounds (up 26 percent) and Maryland, 3.7 million pounds (less than 1 percent) compared with 1998. The average exvessel price per pound of meats was 52 cents in 1999, down 2 cents from 1998.

The ocean quahog fishery produced 38.7 million pounds of meats valued at $18.5 million—a decrease of 1.2 million pounds (3 percent) but an increase of $177,000 (1 percent) compared with 1998. New Jersey had landings of 16.8 million pounds (up 7 percent) valued at $7.2 million (up 7 percent) while Massachusetts production was 16.5 million pounds (down 14 percent) valued at $6.9 million (down 14 percent). Together, they accounted for 86 percent of the total ocean quahog production in 1999. The average exvessel price per pound of meats increased from 46 cents in 1998 to 48 cents in 1999.

The hard clam fishery produced 8.4 million pounds of meats valued at $44.8 million—an increase of 1.2 million pounds (17 percent) and $3.0 million (7 percent) compared with 1998. Landings in the New England region were 2.4 million pounds of meats (down 1 percent); Middle Atlantic, 4.6 million pounds (up 45 percent); Chesapeake, 670,000 pounds (up 23 percent); and the South Atlantic region, 703,000 pounds (down 32 percent). The average exvessel price per pound of meats decreased from $5.81in 1998 to $5.34 in 1999.

Soft clams yielded 2.7 million pounds of meats valued at $12.4 million—a decrease of 160,000 pounds (6 percent), but an increase of $161,000 (1 percent) compared with 1998. Maine was the leading state with 2.3 million pounds of meats (down 3 percent),

followed by New York with 229,000 pounds (up 10 percent), and Maryland with 114,000 pounds (down 48 percent). The average exvessel price per pound of meats was $4.67 in 1999, compared with $4.35 in 1998.



CRABS

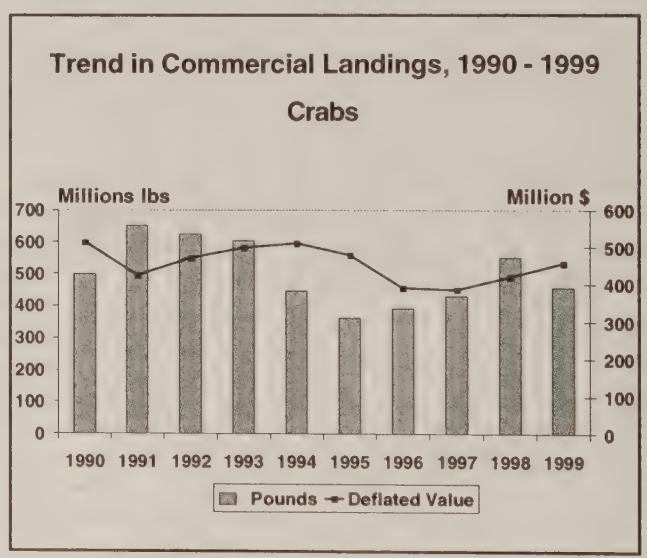
Landings of all species of crabs were 458.3 million pounds valued at $521.2 million—a decrease of 94.4 million pounds (17 percent), but an increase of $47.9 million (10 percent) compared with 1998.

Hard blue crab landings were 196.5 million pounds valued at $150.5 million—a decrease of 21.4 million pounds (10 percent), but an increase of $1.3 million (1 percent) compared with 1998. North Carolina landed 29 percent of the total U.S. landings followed by: Maryland, 17 percent; Virginia, 15 percent; and Louisiana, 15 percent. Hard blue crab landings in the Chesapeake region were 63.2 million pounds—an increase of 2 percent; the South Atlantic with 71.6 million pounds decreased 10 percent; and the Gulf region with 51.5 million pounds decreased 21 percent. The Middle Atlantic region with 10.3 million pounds valued at $8.7 million had a decrease of 771,000 pounds (7 percent) compared with 1998. The average exvessel price per pound of hard blue crabs was 77 cents in 1999, nine cents more than in 1998.

Dungeness crab landings were 35.4 million pounds valued at $71.1 million—an increase of 1.2 million pounds (4 percent) and $9.2 million (15 percent) compared with 1998. Oregon landings of 12.3 million pounds (up 66 percent) led all states with 35 percent of the total landings. Washington landings were 10.6 million pounds (down 20 percent) or 30 percent of the total landings. California landings were 8.6 million pounds (down 19 percent) and Alaska landings were 3.9 million pounds (up 31 percent) compared with 1998. The average exvessel price per pound was $2.01 in 1999 compared with $1.81 in 1998.

U.S. landings of king crab were 16.9 million pounds valued at $88.1 million—a decrease of 7.2 million pounds (30 percent), but an increase of $30.7 million (54 percent) compared with 1998. The average exvessel price per pound in 1999 was $5.21 compared with $2.38 in 1998.

Snow (tanner) crab landings were 185.2 million pounds valued at $165.8 million—a decrease of 66.7 million pounds (26 percent), but an increase of $20.8 million (14 percent) compared with 1998. The average exvessel price per pound was 90 cents in 1999, up from 58 cents in 1998.



LOBSTER, AMERICAN

American lobster landings were 87.5 million pounds valued at $323.0 million—an increase of 7.8 million pounds (10 percent) and $69.3 million (27 percent) compared with 1998. Maine led in landings for the 18th consecutive year with 53.5 million pounds valued at $184.6 million—an increase of 6.6 million pounds (14 percent) compared with 1998. Massachusetts, the second leading producer, had landings of 15.5 million pounds valued at $66.8 million—an increase of 2.3 million pounds (17 percent) compared with 1998.

Together, Maine and Massachusetts produced 79 percent of the total national landings. The average exvessel price per pound was $3.69 in 1999, compared with $3.18 in 1998.

LOBSTERS, SPINY

U.S. landings of spiny lobster were 6.7 million pounds valued at $29.8 million–an increase of 757,000 pounds (13 percent) and $5.4 million (22 percent) compared with 1998. Florida, with landings of 6.1 million pounds valued at $25.5 million, accounted for 91 percent of the total catch and 84 percent of the value. This was an increase of 897,000 pounds (17 percent), and $5.7 million (29 percent) compared with 1998. Overall the average exvessel price per pound was $4.45 in 1999 compared with $4.11 in 1998.

OYSTERS

U.S. oyster landings yielded 27.0 million pounds of meats valued at $72.7 million—a decrease of 6.6 million pounds (20 percent) and $16.0 million (18 percent) compared with 1998. The Gulf region led in production with 15.8 million pounds of meats, 58 percent of the national total; followed by the Pacific (principally Washington, with 85 percent of the region's total volume) with 5.9 million pounds (22 percent); and the Chesapeake region with 2.9 million pounds (11 percent). The average exvessel price per pound of meats was $2.69 in 1999 compared with $2.64 in 1998.

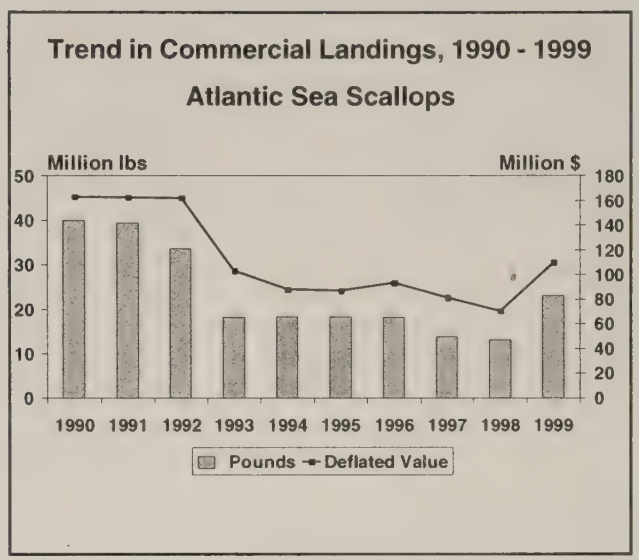
SCALLOPS

U.S. landings of bay, calico and sea scallops totaled 27.2 million pounds of meats valued at $129.4 million—an increase of 14.0 million pounds (107 percent) and $49.4 million (62 percent) compared with 1998. The average exvessel price per pound of meats decreased from $6.10 in 1998 to $4.76 in 1999.

Bay scallop landings were 35,000 pounds of meats valued at $181,000—a decrease of 70,000 pounds (67 percent) and $187,000 (51 percent) compared with 1998. The average exvessel price per pound of meats was $5.17 in 1999 compared with $3.50 in 1998.

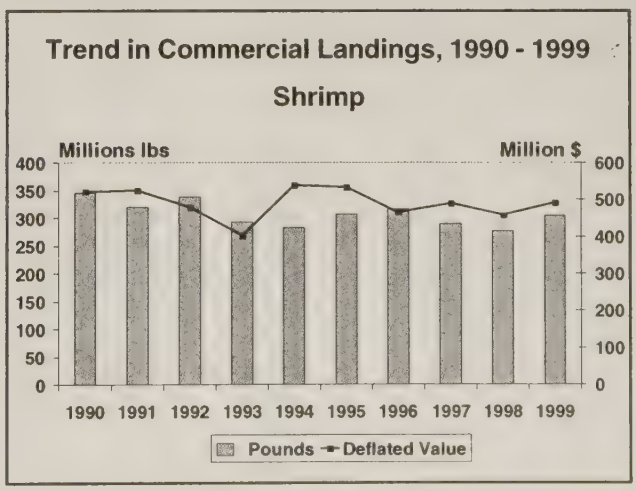
Calico scallops were 4.1 million pounds valued at $3.9 million. No comparison can be made with the 1998 data because they were confidential and cannot be publicly released.

Sea scallop landings were 23.0 million pounds of meats valued at $125.3 million—an increase of 10.0 million pounds (76 percent) and $45.7 million (57 percent) compared with 1998. Massachusetts and Virginia were the leading states in landings of sea scallops with 12.3 and 5.6 million pounds of meats, respectively, representing 77 percent of the national total. The average exvessel price per pound of meats in 1999 was $5.44 compared with $6.09 in 1998.



SHRIMP

U.S. landings of shrimp were 304.2 million pounds valued at $560.5 million—an increase of 26.4 million pounds (10 percent) and $44.9 million (9 percent) in value compared with 1998. Shrimp landings decreased in New England by 53 percent; but increased 26 percent in the South Atlantic and 3 percent in the Gulf.



The landings in the Pacific increased 115 percent when compared with 1998. The average exvessel price per pound of shrimp decreased to $1.84 in 1999 compared with $1.86 in 1998. Gulf region landings were the nation's largest with 236.5 million pounds and 78 percent of the national total. Louisiana led all Gulf states with 118.8 million pounds (up 24 percent); followed by Texas, 70.0 million pounds (down 3 percent); Alabama, 17.7 million pounds (down 12 percent); Florida (West Coast), 15.5 million pounds (down 38 percent); and Mississippi, 14.5 million pounds (down 10 percent). In the Pacific region, Oregon had landings of 20.5 million pounds (up 228 percent); California had 6.4 million pounds (up 102 percent); and Washington had landings of 4.1 million pounds (up 35 percent) compared with 1998.

SQUID

U.S. commercial landings of squid were 258.2 million pounds valued at $71.2 million—an increase of 158.7 million pounds (160 percent) and $27.7 million (64 percent) compared with 1998. California was the leading state with 199.9 million pounds (77 percent) and was followed by Rhode Island with 29.0 million pounds (11 percent of the national total). The Pacific region landings were 200.4 million pounds (up 2624 percent); followed by New England, 34.0 million (down 16 percent); Middle Atlantic, 22.6 million pounds (down 54 percent); and the Chesapeake region with 937,000 pounds (down 41 percent) compared with 1998. The average exvessel price per pound for squid was 28 cents in 1999 compared with 44 cents in 1998.

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1)

Species	1998			1999			Average (1994-98)
Fish	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Alewives	1,309	594	292	1,502	681	332	1,052
Anchovies	3,429	1,555	242	11,736	5,323	1,359	8,244
Atka mackerel	113,712	51,579	5,686	113,396	51,436	5,670	144,976
Bluefish	8,299	3,764	2,765	7,405	3,359	2,673	9,033
Blue runner	609	276	340	397	180	230	722
Bonito	2,596	1,178	917	374	170	216	1,673
Butterfish	5,684	2,578	2,848	6,090	2,762	3,068	7,912
Catfish and bullheads	11,590	5,257	5,251	20,359	9,235	8,799	11,802
Chubs	4,596	2,085	1,883	3,362	1,525	1,468	4,117
Cod:							
Atlantic	24,514	11,119	25,474	21,445	9,727	23,943	30,568
Pacific	555,993	252,197	87,717	523,987	237,679	83,227	574,861
Crevalle (jack)	875	397	487	711	323	409	418
Croaker:							
Atlantic	25,401	11,522	9,619	26,853	12,180	7,667	19,846
Pacific (white)	141	64	100	163	74	131	412
Cusk	780	354	512	508	230	384	1,375
Dolphinfish	922	418	1,375	1,262	572	1,930	1,705
Eels, American	1,015	460	3,971	1,080	490	1,644	1,056
Flounders:							
Arrowtooth	18,181	8,247	906	26,541	12,039	1,458	15,280
Winter (blackback)	11,244	5,100	15,110	10,260	4,654	12,987	10,647
Plaice, American	8,073	3,662	10,298	6,909	3,134	8,536	9,554
Summer (fluke)	11,211	5,085	20,384	10,663	4,837	19,480	15,183
Sole:							
Dover	22,029	9,992	6,576	23,276	10,558	7,056	24,619
Flathead	41,637	18,886	801	31,566	14,318	465	25,156
Witch (gray)	4,089	1,855	6,539	4,682	2,124	6,610	4,685
Petrale	3,228	1,464	3,044	3,262	1,480	3,106	3,749
Rock	33,508	15,199	710	37,900	17,191	772	54,045
Yellowfin	177,471	80,500	3,553	125,287	56,830	2,507	236,155
Yellowtail	8,060	3,656	10,940	9,768	4,431	11,376	6,128
Atlantic/Gulf, Other	5,864	2,660	9,532	4,189	1,900	6,988	3,465
Pacific, Other	46,583	21,130	8,409	36,915	16,745	8,605	69,598
Total, flounders	**391,178**	**177,437**	**96,804**	**331,218**	**150,239**	**89,946**	**461,243**
Goosefish (anglerfish)	58,105	26,356	33,553	55,215	25,045	46,328	53,944
Groupers	9,841	4,464	20,853	12,687	5,755	26,165	10,581
Haddock	6,252	2,836	7,880	6,937	3,147	9,120	2,485
Hake:							
Pacific (whiting)	501,554	227,503	19,931	478,154	216,889	18,593	475,839
Red	2,961	1,343	769	3,431	1,556	919	3,116
Silver (Atl.whiting)	32,990	14,964	13,369	30,977	14,051	14,282	34,361
White	5,256	2,384	3,788	5,805	2,633	4,302	7,481
Halibut	73,260	33,231	103,974	80,330	36,437	124,696	58,983
Herring:							
Sea:							
Atlantic	179,721	81,521	10,856	175,478	79,596	11,082	167,202
Pacific	92,296	41,865	10,722	91,059	41,304	14,989	115,981
Thread	5,678	2,576	658	3,461	1,570	386	9,834
Jack mackerel	3,445	1,563	308	2,461	1,116	199	4,264

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1) - Continued

Species	1998			1999			Average (1994-98)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Lingcod	1,454	660	927	1,392	631	1,007	3,877
Mackerel:							
Atlantic	27,588	12,514	4,704	26,560	12,048	3,572	26,970
Chub	45,025	20,423	2,547	19,217	8,717	1,082	29,740
King and cero	5,204	2,361	6,797	5,313	2,410	6,929	4,853
Spanish	3,216	1,459	1,807	3,004	1,363	1,925	4,249
Menhaden:							
Atlantic	608,974	276,229	46,979	458,556	208,000	34,564	675,046
Gulf	1,096,703	497,461	56,857	1,530,525	694,242	78,518	1,256,844
Total, menhaden	**1,705,677**	**773,690**	**103,836**	**1,989,081**	**902,241**	**113,082**	**1,931,889**
Mullets	17,921	8,129	9,420	15,336	6,956	8,486	21,475
Ocean perch:							
Atlantic	706	320	419	778	353	420	781,840
Pacific	40,663	18,445	4,072	45,402	20,594	3,640	39,084
Pollock:							
Atlantic	12,307	5,582	8,101	10,129	4,594	8,440	8,720
Walleye (Alaska)	2,716,458	1,232,177	190,152	2,325,889	1,055,016	162,812	2,765,839
Rockfishes:							
Bocaccio	1,314	596	518	434	197	198	--
Canary	2,894	1,313	1,469	1,702	772	813	--
Chilipepper	2,807	1,273	1,187	2,025	919	941	--
Widow	10,796	4,897	3,850	9,353	4,242	3,580	--
Yellowtail	7,940	3,602	3,006	7,646	3,468	2,937	--
Other	44,307	20,098	23,011	42,063	19,080	21,967	--
Total, rockfishes	**70,058**	**31,778**	**33,041**	**63,223**	**28,678**	**30,436**	**92,726**
Sablefish	43,500	19,731	91,823	48,255	21,888	97,148	58,723
Salmon, Pacific:							
Chinook or king	16,229	7,361	18,998	15,276	6,929	25,524	20,425
Chum or keta	130,939	59,394	22,662	143,949	65,295	25,739	163,490
Pink	332,577	150,856	45,580	382,091	173,315	52,431	335,856
Red or sockeye	128,742	58,397	150,835	244,349	110,836	233,308	258,829
Silver or coho	35,947	16,305	19,381	29,231	13,259	22,783	46,928
Total, salmon	**644,434**	**292,313**	**257,456**	**814,896**	**369,634**	**359,785**	**825,528**
Sardines:							
Pacific	93,875	42,581	3,613	132,153	59,944	5,263	76,482
Spanish	1,079	489	251	1,181	536	191	1,241
Scup or porgy	4,913	2,229	6,882	3,879	1,760	4,783	7,009
Sea bass:							
Black (Atlantic)	3,377	1,532	5,342	3,786	1,717	6,077	3,717
White (Pacific)	157	71	295	247	112	410	94
Sea trout or weakfish:							
Gray	8,423	3,821	4,060	6,935	3,146	4,188	7,170
Spotted	585	265	841	871	395	1,164	1,359
Sand (white)	123	56	80	210	95	108	214
Shad:							
American	4,375	1,984	1,715	2,635	1,195	1,148	3,243
Hickory	104	47	14	137	62	30	122
Sharks:							
Dogfish	49,111	22,277	8,139	36,712	16,652	5,951	52,122
Other	15,453	7,009	6,644	14,711	6,673	6,625	15,258
Sheepshead (Atlantic)	3,010	1,365	1,080	2,609	1,183	989	3,780

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1) - Continued

Species	1998			1999			Average (1994-98)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Skates	33,669	15,272	4,578	31,381	14,234	3,690	26,070
Smelts	1,817	824	643	1,702	772	913	2,505
Snapper:							
Red	4,257	1,931	9,899	4,722	2,142	10,492	4,251
Vermilion	1,059	480	2,280	1,614	732	3,474	1,345
Unclassified	3,614	1,639	7,021	3,991	1,810	7,712	5,246
Spearfish	296	134	174	473	215	397	1,839
Spot	7,404	3,358	2,934	5,729	2,599	2,191	7,270
Striped bass	6,715	3,046	9,699	6,625	3,005	10,987	4,572
Swordfish	15,093	6,846	28,888	16,022	7,268	33,436	13,972
Tenpounder (ladyfish)	2,151	976	1,178	4,337	1,967	1,997	-
Tilefish	3,801	1,724	6,011	2,070	939	4,040	3,487
Trout, rainbow	789	358	497	180	82	101	440
Tuna:							
Albacore	33,429	15,163	22,224	25,274	11,464	21,932	27,839
Bigeye	8,779	3,982	24,816	7,978	3,619	25,428	7,123
Bluefin	6,660	3,021	15,448	2,689	1,220	15,573	6,777
Little (tunny)	661	300	161	1,132	513	626	507
Skipjack	13,918	6,313	6,616	10,322	4,682	5,221	11,687
Yellowfin	20,832	9,449	24,791	10,286	4,666	17,076	21,286
Unclassified	720	327	406	439	199	398	571
Total, tuna	**84,999**	**38,555**	**94,462**	**58,120**	**26,363**	**86,254**	**75,790**
Whitefish, lake	12,519	5,679	9,418	11,802	5,353	9,982	11,999
Wolffish, Atlantic	652	296	321	568	258	242	843
Yellow perch	1,227	557	2,637	1,184	537	2,584	1,994
Other marine finfishes	52,313	23,729	35,388	47,649	21,613	32,769	69,661
Other freshwater finfishes	12,847	5,827	3,914	21,315	9,668	7,183	15,146
Total, fish	**7,888,020**	**3,577,982**	**1,446,942**	**7,811,868**	**3,543,440**	**1,558,292**	**--**
Shellfish							
Clams:							
Quahog (hard)	7,194	3,263	41,775	8,396	3,808	44,798	11,117
Geoduck (Pacific)	1,445	655	16,025	1,498	679	15,437	--
Manila	1,174	533	8,650	693	314	4,529	--
Ocean quahog	39,898	18,098	18,358	38,705	17,556	18,535	45,161
Softshell	2,815	1,277	12,235	2,655	1,204	12,397	2,503
Surf (Atlantic)	54,032	24,509	29,202	58,829	26,685	30,431	61,208
Other	1,401	635	8,992	1,454	660	8,897	1,437
Total, clams	**107,959**	**48,970**	**135,237**	**112,230**	**50,907**	**135,024**	**118,750**
Conch (snails)	1,872	849	2,448	3,329	1,510	3,991	4,114
Crabs:							
Blue: Hard	217,916	98,846	149,141	196,521	89,141	150,482	215,659
Soft and peeler	6,693	3,036	34,316	5,973	2,709	20,800	3,995
Dungeness	34,213	15,519	61,894	35,449	16,080	71,111	46,248
Jonah	2,768	1,256	1,359	3,414	1,549	1,651	1,664
King	24,122	10,942	57,366	16,920	7,675	88,075	17,956

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1998 AND 1999 (1) - Continued

Species	1998			1999			Average (1994-98)
Shellfish - Continued	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Crabs - Continued:							
Snow (tanner):							
Opilio	249,146	113,012	139,771	182,997	83,007	161,037	130,525
Bairdi	2,685	1,218	5,207	2,165	982	4,746	5,243
Other	15,173	6,882	24,324	14,868	6,744	23,335	15,685
Total, crabs	**552,716**	**250,710**	**473,378**	**458,307**	**207,887**	**521,237**	**436,975**
Crawfish (freshwater)	22,226	10,082	14,637	11,734	5,323	8,237	19,608
Horseshoe crab	7,170	3,252	2,159	5,286	2,398	1,474	3,976
Lobsters:							
American	79,642	36,125	253,636	87,469	39,676	322,957	73,605
Spiny	5,935	2,692	24,380	6,692	3,035	29,754	7,342
Mussels, blue (sea)	2,913	1,321	1,604	1,981	899	1,046	5,124
Oysters	33,538	15,213	88,627	26,983	12,239	72,658	37,034
Scallops:							
Bay	105	48	368	35	16	181	109
Calico, Atlantic	(3)	(3)	(3)	4,105	1,862	3,880	--
Sea	13,061	5,924	79,606	23,038	10,450	125,289	16,310
Shrimp:							
New England	8,132	3,689	7,697	3,812	1,729	3,579	13,133
South Atlantic	23,972	10,874	61,341	30,197	13,697	68,585	31,665
Gulf	229,962	104,310	429,169	236,476	107,265	464,178	216,016
Pacific	15,545	7,051	16,773	33,669	15,272	24,041	34,001
Other	146	66	636	19	9	118	66
Total, shrimp	**277,757**	**125,990**	**515,616**	**304,173**	**137,972**	**560,501**	**294,889**
Squid:							
Atlantic:							
Illex	50,082	22,717	9,463	16,169	7,334	3,852	38,002
Loligo	41,620	18,879	32,141	41,335	18,749	32,176	39,224
Unclassified	1,543	700	277	806	366	190	91,978
Pacific:							
Loligo	5,973	2,709	1,520	199,874	90,662	34,949	--
Unclassified	235	107	71	14	6	5	--
Total, Squid	**99,453**	**45,112**	**43,472**	**258,198**	**117,118**	**71,172**	**201,564**
Other shellfish	14,268	6,472	13,686	14,616	6,630	9,720	10,689
Total, Shellfish	**1,218,615**	**552,760**	**1,648,854**	**1,318,176**	**597,921**	**1,867,121**	**--**
Other							
Sea urchins	30,042	13,627	27,319	33,550	15,218	35,647	48,463
Seaweed, unclassified	56,318	25,546	982	174,162	78,999	525	--
Kelp (w/herring eggs)	315	143	1,017	521	236	1,543	426
Worms	660	299	3,355	757	343	3,956	--
Total, other	**87,335**	**39,615**	**32,673**	**208,990**	**94,797**	**41,671**	**--**
Grand Total, U.S.	**9,193,970**	**4,170,357**	**3,128,469**	**9,339,034**	**4,236,158**	**3,467,084**	**--**

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Missisippi River drainage are not available.
(2) Less than $500.
(3) Data are confidential and included with unclassified shellfish.

Note:—Data are preliminary. Totals may not add due to rounding. Data do not include landings by U.S.-flag vessels at Puerto Rico or other ports outside the 50 States. Data do not include aquaculture products, except oysters and clams. Metric tons are arrived at by dividing the landings of individual species and group totals by 2.2046.

U.S. Commercial Landings

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1998 AND 1999

End Use	1998		1999	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food	6,574	71.5	6,046	64.7
For bait and animal food	296	3.2	370	4.0
Total	**6,870**	**74.7**	**6,416**	**68.7**
Canned:				
For human food	470	5.1	653	7.0
For bait and animal food	46	0.5	59	0.6
Total	**516**	**5.6**	**712**	**7.6**
Cured for human food	129	1.4	133	1.4
Reduction to meal, oil, other	1,679	18.3	2,078	22.3
Grand total	**9,194**	**100.0**	**9,339**	**100.0**

NOTE:--Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1999

Month	Landings for human food		Landings for industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	436	6.4	51	2.0	487	5.2
February	968	14.2	36	1.4	1,004	10.8
March	597	8.7	31	1.2	628	6.7
April	297	4.3	129	5.1	426	4.6
May	326	4.8	271	10.8	597	6.4
June	386	5.6	410	16.4	796	8.5
July	774	11.3	432	17.2	1,206	12.9
August	1,208	17.7	376	15.0	1,584	17.0
September	788	11.5	386	15.4	1,174	12.6
October	689	10.1	220	8.8	909	9.7
November	209	3.1	86	3.4	295	3.2
December	154	2.3	79	3.2	233	2.5
Total	**6,832**	**100.0**	**2,507**	**100.0**	**9,339**	**100.0**

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1990-1999 (1)

Year	Landings for human food		Landings for industrial purposes (2)		Total	
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars
1990	7,041	3,366	2,363	156	9,404	3,522
1991	7,031	3,169	2,453	139	9,484	3,308
1992	7,618	3,531	2,019	147	9,637	3,678
1993	*8,214	3,317	2,253	154	10,467	3,471
1994	7,936	3,714	2,525	95	10,461	3,809
1995	7,667	3,625	2,121	145	9,788	3,770
1996	7,474	3,355	2,091	132	9,565	3,487
1997	7,244	3,285	2,598	163	9,842	3,448
1998	7,173	3,009	2,021	119	9,194	3,128
1999	6,832	3,265	2,507	202	9,339	3,467

(1) Statistics on landings are shown in round weight for all items except univa[illegible] and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell).
(2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food.

*Record. Record—For industrial purposes 1983, 3,201 million lb.

NOTE:—Data are preliminary. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY REGION AND BY STATE, 1998 AND 1999 (1)

Regions and States	1998		1999		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
New England:	**595,611**	**537,442**	**583,863**	**655,377**	-	-
Maine	183,905	216,431	229,633	265,236	1950	356,266
New Hampshire	10,143	11,178	11,258	12,542	-	(2)
Massachusetts	252,518	204,408	198,336	260,239	1948	649,696
Rhode Island	131,420	71,066	126,206	79,270	1957	142,080
Connecticut	17,625	34,359	18,430	38,090	1930	88,012
Middle Atlantic:	**261,686**	**181,177**	**225,278**	**180,673**	-	-
New York	57,532	84,323	48,175	76,049	1880	335,000
New Jersey	195,918	90,919	168,676	97,731	1956	540,060
Delaware	7,898	5,882	8,427	6,893	1953	367,500
Pennsylvania	338	53	-	-	-	(2)
Chesapeake:	**653,365**	**179,869**	**527,407**	**172,012**	-	-
Maryland	61,468	67,190	67,118	63,759	1890	141,607
Virginia	591,897	112,679	460,289	108,253	1990	786,794
South Atlantic:	**239,912**	**197,010**	**230,971**	**198,347**	-	-
North Carolina	182,161	104,777	154,869	97,304	1981	432,006
South Carolina	17,304	28,292	17,773	29,265	1965	26,611
Georgia	13,017	23,737	11,234	21,100	1927	47,607
Florida, East Coast	27,430	40,204	47,095	50,678	-	(2)
Gulf:	**1,536,583**	**718,925**	**1,945,063**	**757,857**	-	-
Florida, West Coast	87,010	148,356	83,792	146,976	-	(2)
Alabama	30,081	46,985	27,399	50,415	1973	36,744
Mississippi	210,775	48,434	267,546	48,526	1985	439,518
Louisiana	1,119,500	291,893	1,480,045	302,735	1984	1,931,027
Texas	89,217	183,257	86,281	209,205	1960	237,684
Pacific Coast:	**5,843,268**	**1,235,709**	**5,765,700**	**1,422,258**	-	-
Alaska	4,858,052	951,479	4,492,649	1,105,946	1993	5,905,638
Washington	418,985	123,223	392,555	98,471	1994	527,804
Oregon	230,125	50,341	233,177	67,590	1992	256,912
California	336,106	110,666	647,319	150,251	1936	1,760,193
Great Lakes:	**27,116**	**16,274**	**23,843**	**16,009**	-	-
Illinois	98	98	86	50	-	(2)
Indiana	.	.	.	.	-	(2)
Michigan	14,831	8,862	13,546	9,339	1930	35,580
Minnesota	427	224	443	197	-	(2)
New York	1	2	1	2	-	(2)
Ohio	4,733	2,618	3,932	2,186	1936	31,083
Pennsylvania	35	52	32	43	-	(2)
Wisconsin	6,991	4,418	5,803	4,192	-	(2)
Hawaii	**36,426**	**62,065**	**36,907**	**64,557**	1993	34,582
Total, United States	**9,193,967**	**3,128,471**	**9,339,032**	**3,467,090**	---	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.
2) Data not available.
NOTE:—Data are preliminary. Totals may not add due to roundings. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" beginning on page 8. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1998-1999

Port	Quantity		Port	Value	
	1998	1999		1998	1999
	Million pounds			Million dollars	
Dutch Harbor-Unalaska, AK	597.1	678.3	Dutch Harbor-Unalaska, AK	110.0	140.8
Empire-Venice, LA	328.0	435.0	New Bedford, MA	93.5	129.9
Cameron, LA	257.4	406.0	Kodiak, AK	78.7	100.8
Reedville, VA	509.0	378.6	Brownsville-Port Isabel, TX	64.2	65.2
Intercoastal City, LA	206.7	369.0	Empire-Venice, LA	38.3	64.0
Kodiak, AK	357.6	331.6	Honolulu, HI	49.0	52.1
Pascagoula-Moss Point, MS	193.2	250.5	Key West, FL	44.8	51.9
Los Angeles, CA	150.9	194.7	Point Judith, RI	41.8	51.2
Ketchikan, AK	99.9	159.4	Dulac-Chauvin, LA	38.7	49.0
Port Hueneme-Oxnard-Ventura, CA	16.2	155.9	Naknek-King Salmon, AK	29.5	46.5
Morgan City-Berwick, LA	158.6	137.0	Portland, ME	35.2	42.4
Astoria, OR	87.7	118.2	Seward, AK	26.3	41.5
Petersburg, AK	73.0	99.2	Bayou La Batre, AL	36.4	40.0
Newport, OR	117.6	92.4	Ketchikan, AK	22.8	39.9
New Bedford, MA	87.4	86.1	Hampton Roads Area, VA	28.0	39.1
Point Judith, RI	75.1	72.5	Los Angeles, CA	26.3	36.1
Naknek-King Salmon, AK	34.1	62.3	Cameron, LA	29.8	36.0
Cordova, AK	45.4	62.2	Palacios, TX	32.6	35.9
Beaufort-Morehead City, NC	80.4	57.0	Homer, AK	18.9	34.6
Cape May-Wildwood, NJ	94.0	56.4	Petersburg, AK	26.1	34.1
Portland, ME	46.5	55.6	Galveston, TX	27.9	33.1
Gloucester, MA	107.1	49.7	Sitka, AK	24.3	32.6
Dulac-Chauvin, LA	30.5	42.0	Reedville, VA	42.6	32.4
Seward, AK	45.0	41.8	Port Hueneme-Oxnard-Ventura, CA	8.0	32.3
Atlantic City, NJ	37.3	41.2	Cordova, AK	20.7	30.8
Moss Landing, CA	27.6	40.7	Golden Meadow-Leeville, LA	27.1	29.0
Sitka, AK	19.3	36.2	Gulfport-Biloxi, MS	30.1	27.9
Rockland, ME	39.0	35.8	Gloucester, MA	28.4	25.9
Wanchese-Stumpy Point, NC	36.7	33.6	Delcambre, LA	22.5	25.0
Point Pleasant, NJ	32.9	33.4	Astoria, OR	18.0	23.1
Honolulu, HI	28.3	30.6	Kenai, AK	10.3	22.9
Coos Bay-Charleston, OR	14.6	26.0	Wanchese-Stumpy Point, NC	24.7	22.7
Westport, WA	34.5	25.6	Cape May-Wildwood, NJ	29.2	22.4
Wrangell, AK	17.9	23.2	Port Arthur, TX	32.6	22.4
Brownsville-Port Isabel, TX	24.7	22.2	Intercoastal City, LA	12.7	21.0
Hampton Roads Area, VA	21.9	21.9	Atlantic City, NJ	17.8	20.0
Bellingham, WA	24.0	21.2	Newport, OR	14.1	19.6
Provincetown-Chatham, MA	17.8	20.0	Tampa Bay-St. Petersburg, FL	28.7	19.2
Key West, FL	18.9	19.8	Fort Myers, FL	20.5	18.9
Kenai, AK	18.7	19.6	Point Pleasant, NJ	16.7	17.2
Golden Meadow-Leeville, LA	17.6	19.0	Delacroix-Yscloskey, LA	15.6	17.0
Galveston, TX	16.3	18.0	Bellingham, WA	16.7	16.9
Bayou La Batre, AL	23.6	17.8	Beaufort-Morehead City, NC	20.8	16.7
Homer, AK	19.0	17.4	Freeport, TX	16.1	16.6
Delacroix-Yscloskey, LA	14.0	16.0	Morgan City-Berwick, LA	17.8	16.0
Engelhard-Swanquarter, NC	17.7	15.7	Pascagoula-Moss Point, MS	13.8	16.0
Crescent City, CA	22.9	14.3	Aransas Pass-Rockport, TX	15.5	15.0
Grand Isle, LA	14.4	14.0	Juneau, AK	8.4	14.4
Gulfport-Biloxi, MS	14.1	13.4	Provincetown-Chatham, MA	10.2	12.9
Delcambre, LA	12.4	13.0	Charleston-Mt. Pleasant, SC	13.0	12.0
Palacios, TX	14.6	12.8	Grand Isle, LA	17.1	12.0

Notes:—To avoid disclosure of private enterprise certain leading ports have not been included to preserve confidentiality. Seattle landings include fish caught by at-sea processing vessels. The record landings for quantity was 848.2 million pounds in Los Angeles, CA in 1960 and for value was $224.1 million in Dutch Harbor-Unalaska, AK in 1994.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Alewives	1,453	327	48	4	-	-	1,501	331
Anchovies	5,745	687	5,990	672	-	-	11,735	1,359
Atka mackerel	220	11	113,175	5,659	-	-	113,395	5,670
Bluefish	4,556	1,693	2,849	980	-	-	7,405	2,673
Blue runner	269	167	128	63	-	-	397	230
Bonito	164	116	208	100	2	(3)	374	216
Butterfish	1,007	605	5,083	2,462	-	-	6,090	3,067
Catfish & bullheads	20,356	8,796	3	3	-	-	20,359	8,799
Chubs	3,362	1,468	(3)	(3)	-	-	3,362	1,468
Cod:								
Atlantic	903	967	20,541	22,975	-	-	21,444	23,942
Pacific	65,203	11,521	458,784	71,706	-	-	523,987	83,227
Crevalle	261	173	450	236	-	-	711	409
Croaker:								
Atlantic	17,086	5,143	9,767	2,524	-	-	26,853	7,667
Pacific (white)	34	28	129	104	-	-	163	132
Cusk	22	18	486	366	-	-	508	384
Dolphinfish	8	12	1,229	1,888	24	30	1,261	1,930
Eel, American	1,079	1,643	1	1	-	-	1,080	1,644
Flounders:								
Arrowtooth	1,297	105	25,244	1,354	-	-	26,541	1,459
Winter (blackback)	2,199	2,651	8,061	10,336	-	-	10,260	12,987
Plaice, American	690	828	6,219	7,708	-	-	6,909	8,536
Summer (fluke)	2,797	5,683	7,866	13,797	-	-	10,663	19,480
Sole:								
Dover	3,970	1,351	19,306	5,704	-	-	23,276	7,055
Flathead	49	6	31,517	459	-	-	31,566	465
Witch (gray)	350	463	4,332	6,147	-	-	4,682	6,610
Petrale	719	693	2,543	2,413	-	-	3,262	3,106
Rock	53	3	37,847	769	-	-	37,900	772
Yellowfin	(3)	(3)	125,287	2,507	-	-	125,287	2,507

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Flounders - Continued:								
Yellowtail	602	659	9,166	10,717	-	-	9,768	11,376
Atlantic/Gulf, other	3,934	6,879	256	109	-	-	4,190	6,988
Pacific, other	2,227	1,845	34,689	6,760	-	-	36,916	8,605
Total flounders	**18,887**	**21,166**	**312,333**	**68,780**	-	-	**331,220**	**89,946**
Goosefish (anglerfish)	4,946	3,792	50,269	42,536	-	-	55,215	46,328
Groupers	543	1,100	12,144	25,065	-	-	12,687	26,165
Haddock	213	274	6,724	8,846	-	-	6,937	9,120
Hakes:								
Pacific (whiting)	-	-	478,154	18,593	-	-	478,154	18,593
Red	234	49	3,197	870	-	-	3,431	919
Silver (Atl. Whiting)	1,730	623	29,247	13,660	-	-	30,977	14,283
White	175	113	5,630	4,189	-	-	5,805	4,302
Halibut	3,699	5,808	76,827	119,147	4	7	80,530	124,962
Herring:								
Sea:								
Atlantic	47,016	3,248	128,462	7,834	-	-	175,478	11,082
Pacific	91,036	14,984	23	5	-	-	91,059	14,989
Thread	3,461	386	(3)	(3)	-	-	3,461	386
Jack mackerel	1,768	144	693	55	-	-	2,461	199
Lingcod	404	281	988	726	-	-	1,392	1,007
Mackerels:								
Atlantic	4,145	741	22,415	2,832	-	-	26,560	3,573
Chub	14,443	810	4,774	272	-	-	19,217	1,082
King and cero	530	645	4,783	6,284	-	-	5,313	6,929
Spanish	1,191	831	1,812	1,093	-	-	3,003	1,924
Menhaden:								
Atlantic	422,697	31,683	35,859	2,881	-	-	458,556	34,564
Gulf	1,208,117	61,923	322,408	16,595	-	-	1,530,525	78,518
Total menhaden	**1,630,814**	**93,606**	**358,267**	**19,476**	-	-	**1,989,081**	**113,082**
Mullets	15,156	8,351	180	135	-	-	15,336	8,486
Ocean perch:								
Atlantic	15	8	763	412	-	-	778	420
Pacific	2	(3)	45,400	3,640	-	-	45,402	3,640

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Pollock:								
Atlantic	193	146	9,936	8,294	-	-	10,129	8,440
Walleye (Alaska)	72,600	5,082	2,253,289	157,730	-	-	2,325,889	162,812
Rockfishes:								
Bocaccio	20	11	414	188	-	-	434	199
Canary	25	13	1,678	800	-	-	1,703	813
Chilipepper	361	168	1,664	773	-	-	2,025	941
Widow	53	23	9,300	3,557	-	-	9,353	3,580
Yellowtail	36	18	7,609	2,920	-	-	7,645	2,938
Other	2,607	1,784	39,456	20,183	-	-	42,063	21,967
Total rockfishes	**3,102**	**2,017**	**60,121**	**28,421**	-	-	**63,223**	**30,438**
Sablefish	5,946	11,914	42,309	85,234	-	-	48,255	97,148
Salmon:								
Chinook or king	11,195	18,771	4,081	6,752	-	-	15,276	25,523
Chum or keta	143,947	25,739	2	(3)	-	-	143,949	25,739
Pink	382,089	52,431	3	1	-	-	382,092	52,432
Red or sockeye	244,349	233,308	(3)	(3)	-	-	244,349	233,308
Silver or coho	28,065	21,483	1,166	1,300	-	-	29,231	22,783
Total salmon	**781,580**	**351,732**	**4,086**	**8,053**	-	-	**785,666**	**359,785**
Sardines:								
Pacific	93,020	3,710	39,133	1,553	-	-	132,153	5,263
Spanish	1,181	191	-	-	-	-	1,181	191
Scup or porgy	1,553	2,133	2,326	2,650	-	-	3,879	4,783
Sea bass:								
Black (Atlantic)	946	1,634	2,840	4,443	-	-	3,786	6,077
White (Pacific)	25	41	222	369	-	-	247	410
Sea trout or weakfish:								
Gray	4,916	3,055	2,019	1,132	-	-	6,935	4,187
Spotted	870	1,163	1	1	-	-	871	1,164
Sand (white)	112	76	98	32	-	-	210	108
Shad:								
American	2,547	1,111	87	37	-	-	2,634	1,148
Hickory	132	29	5	1	-	-	137	30

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Sharks:								
Dogfish	7,853	1,243	28,859	4,708	-	-	36,712	5,951
Other	903	560	10,598	5,272	3,210	794	14,711	6,626
Sheepshead (Atlantic)	2,598	985	11	4	-	-	2,609	989
Skates	9,929	1,154	21,453	2,536	-	-	31,382	3,690
Smelts	1,695	913	7	1	-	-	1,702	914
Snappers:								
Red	117	521	4,605	9,971	-	-	4,722	10,492
Vermillion	(3)	(3)	1,613	3,474	-	-	1,613	3,474
Unclassified	366	746	3,625	6,966	-	-	3,991	7,712
Spearfish	12	10	241	203	220	185	473	398
Spot	5,621	2,151	108	40	-	-	5,729	2,191
Striped bass	6,561	10,876	63	111	-	-	6,624	10,987
Swordfish	245	477	8,804	19,780	6,972	13,179	16,021	33,436
Tenpounder (ladyfish)	4,329	1,996	7	2	-	-	4,336	1,998
Tilefish	66	148	2,004	3,892	-	-	2,070	4,040
Trout, Rainbow	180	101	-	-	-	-	180	101
Tuna:								
Albacore	450	467	13,996	11,977	16,622	14,345	31,068	26,789
Bigeye	94	301	4,831	15,152	10,304	12,192	15,229	27,645
Bluefin	20	56	2,600	15,296	69	221	2,689	15,573
Little tunny	244	48	889	579	-	-	1,133	627
Skipjack	901	1,091	1,445	1,388	331,298	99,301	333,644	101,780
Yellowfin	1,021	2,229	5,875	12,335	89,276	33,396	96,172	47,960
Unclassified	16	28	251	281	172	89	439	398
Total tuna	**2,746**	**4,220**	**29,887**	**57,008**	**447,741**	**159,544**	**480,374**	**220,772**
Whitefish, common	11,802	9,982	-	-	-	-	11,802	9,982
Wolffish, Atlantic	21	9	547	234	-	-	568	243
Yellow perch	1,184	2,584	-	-	-	-	1,184	2,584
Other marine finfishes	22,418	15,511	23,246	14,213	2,039	3,167	47,703	32,891
Other freshwater finfishes	20,129	6,887	1,186	296	-	-	21,315	7,183
Total finfish	**3,057,699**	**635,443**	**4,716,458**	**880,854**	**460,212**	**176,906**	**8,234,369**	**1,693,203**

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Shellfish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Clams:								
Quahog (hard)	8,396	44,798	-	-	-	-	8,396	44,798
Geoduck (Pacific)	1,498	15,437	(3)	(3)	-	-	1,498	15,437
Manila (Pacific)	693	4,529	-	-	-	-	693	4,529
Ocean quahog	6,844	3,709	31,861	14,826	-	-	38,705	18,535
Softshell	2,655	12,397	-	-	-	-	2,655	12,397
Surf (Atlantic)	29,968	16,953	28,861	13,478	-	-	58,829	30,431
Other	1,454	8,897	(3)	(3)	-	-	1,454	8,897
Total clams	**51,508**	**106,720**	**60,722**	**28,304**	-	-	**112,230**	**135,024**
Conch (snails)	1,887	2,331	1,442	1,659	-	-	3,329	3,990
Crabs:								
Blue: Hard	196,521	150,482	-	-	-	-	196,521	150,482
Soft or peeler	5,973	20,799	-	-	-	-	5,973	20,799
Dungeness	30,865	62,294	4,584	8,817	-	-	35,449	71,111
Jonah	1,590	793	1,824	857	-	-	3,414	1,650
King	1,368	5,147	15,552	82,928	-	-	16,920	88,075
Snow (tanner):								
Opilio	-	-	182,997	161,037	-	-	182,997	161,037
Bairdi	2,165	4,746	(3)	(3)	-	-	2,165	4,746
Other	7,541	6,273	7,327	17,062	-	-	14,868	23,335
Total crabs	**246,023**	**250,534**	**212,284**	**270,701**	-	-	**458,307**	**521,235**
Crawfish, freshwater	11,733	8,347	-	-	-	-	11,733	8,347
Horseshoe crab	3,546	852	1,740	512	-	-	5,286	1,364
Lobsters:								
American	77,224	279,638	10,246	43,319	-	-	87,470	322,957
Spiny	2,446	11,787	4,247	17,967	-	-	6,693	29,754
Mussels, blue (sea)	1,981	1,046	-	-	-	-	1,981	1,046
Oysters	26,983	72,658	-	-	-	-	26,983	72,658

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Shellfish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Scallops:								
Bay	35	181	-	-	-	-	35	181
Calico, Atlantic	1,877	1,598	2,228	2,283	-	-	4,105	3,881
Sea	2,248	12,293	20,791	112,997	-	-	23,039	125,290
Shrimp:								
New England	1,196	1,160	2,616	2,419	-	-	3,812	3,579
South Atlantic	25,928	58,988	4,269	9,598	-	-	30,197	68,586
Gulf	127,753	185,464	108,723	278,714	-	-	236,476	464,178
Pacific	7,311	8,988	26,357	15,053	-	-	33,668	24,041
Other	10	59	10	59	-	-	20	118
Total shrimp	**162,198**	**254,659**	**141,975**	**305,843**	-	-	**304,173**	**560,502**
Squid:								
Atlantic:								
Illex	3,979	1,064	12,190	2,788	-	-	16,169	3,852
Loligo	8,879	7,238	32,456	24,938	-	-	41,335	32,176
Unclassified	181	104	625	86	-	-	806	190
Pacific:								
Loligo	189,880	33,201	9,994	1,747	-	-	199,874	34,948
Unclassified	14	5	-	-	-	-	14	5
Total, squid	**202,933**	**41,612**	**55,265**	**29,559**	-	-	**258,198**	**71,171**
Other shellfish	14,001	8,545	**615**	1,174	-	-	14,616	9,719
Total shellfish	**806,623**	**1,052,801**	**511,555**	**814,318**	-	-	**1,318,178**	**1,867,119**
Other								
Sea urchin	33,545	35,642	5	5	-	-	33,550	35,647
Seaweed, unclassified	174,162	525	-	-	-	-	174,162	525
Kelp (with herring eggs)	521	1,543	(3)	(3)	-	-	521	1,543
Worms	757	3,956	-	-	-	-	757	3,956
Total other	**208,985**	**41,666**	**5**	**5**	-	-	**208,990**	**41,671**
Grand total, 1999	**4,073,307**	**1,729,910**	**5,228,018**	**1,695,177**	**460,212**	**176,906**	**9,761,537**	**3,601,993**
Grand total, 1998	**3,448,447**	**1,542,845**	**5,707,659**	**1,553,368**	**438,681**	**198,148**	**9,594,787**	**3,294,361**

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.
(3) Less than 500 LB or $500. (4) Data are confidential and included with other shellfish.
NOTE:—Data are preliminary. Totals may not agree due to roundings. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters or clams.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Alewives	659	327	22	4	-	-	681	331
Anchovies	2,606	687	2,717	672	-	-	5,323	1,359
Atka mackerel	100	11	51,336	5,659	-	-	51,436	5,670
Bluefish	2,067	1,693	1,292	980	-	-	3,359	2,673
Blue runner	122	167	58	63	-	-	180	230
Bonito	74	116	94	100	1	(3)	170	216
Butterfish	457	605	2,306	2,462	-	-	2,762	3,067
Catfish & bullheads	9,233	8,796	1	3	-	-	9,235	8,799
Chubs	1,525	1,468	(3)	(3)	-	-	1,525	1,468
Cod:								
Atlantic	410	967	9,317	22,975	-	-	9,727	23,942
Pacific	29,576	11,521	208,103	71,706	-	-	237,679	83,227
Crevalle	118	173	204	236	-	-	323	409
Croaker:								
Atlantic	7,750	5,143	4,430	2,524	-	-	12,180	7,667
Pacific (white)	15	28	59	104	-	-	74	132
Cusk	10	18	220	366	-	-	230	384
Dolphinfish	4	12	557	1,888	11	30	572	1,930
Eel, American	489	1,643	1	1	-	-	490	1,644
Flounders:								
Arrowtooth	588	105	11,451	1,354	-	-	12,039	1,459
Winter (blackback)	997	2,651	3,656	10,336	-	-	4,654	12,987
Plaice, American	313	828	2,821	7,708	-	-	3,134	8,536
Summer (fluke)	1,269	5,683	3,568	13,797	-	-	4,837	19,480
Sole:								
Dover	1,801	1,351	8,757	5,704	-	-	10,558	7,055
Flathead	22	6	14,296	459	-	-	14,318	465
Witch (gray)	159	463	1,965	6,147	-	-	2,124	6,610
Petrale	326	693	1,153	2,413	-	-	1,480	3,106
Rock	24	3	17,167	769	-	-	17,191	772
Yellowfin	(3)	(3)	56,830	2,507	-	-	56,830	2,507

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Flounders - Continued:								
Yellowtail	273	659	4,158	10,717	-	-	4,431	11,376
Atlantic/Gulf, other	1,784	6,879	116	109	-	-	1,901	6,988
Pacific, other	1,010	1,845	15,735	6,760	-	-	16,745	8,605
Total Flounders	**8,567**	**21,166**	**312,333**	**68,780**	-	-	**150,240**	**89,946**
Goosefish (anglerfish)	2,243	3,792	22,802	42,536	-	-	25,045	46,328
Groupers	246	1,100	5,508	25,065	-	-	5,755	26,165
Haddock	97	274	3,050	8,846	-	-	3,147	9,120
Hakes:								
Pacific (whiting)	-	-	216,889	18,593	-	-	216,889	18,593
Red	106	49	1,450	870	-	-	1,556	919
Silver (Atl. Whiting)	785	623	13,266	13,660	-	-	14,051	14,283
White	79	113	2,554	4,189	-	-	2,633	4,302
Halibut	1,678	5,808	34,848	119,147	2	7	36,528	124,962
Herring:								
Sea:								
Atlantic	21,326	3,248	58,270	7,834	-	-	79,596	11,082
Pacific	41,294	14,984	10	5	-	-	41,304	14,989
Thread	1,570	386	(3)	(3)	-	-	1,570	386
Jack mackerel	802	144	314	55	-	-	1,116	199
Lingcod	183	281	448	726	-	-	631	1,007
Mackerels:								
Atlantic	1,880	741	10,167	2,832	-	-	12,048	3,573
Chub	6,551	810	2,165	272	-	-	8,717	1,082
King and cero	240	645	2,170	6,284	-	-	2,410	6,929
Spanish	540	831	822	1,093	-	-	1,362	1,924
Menhaden:								
Atlantic	191,734	31,683	16,266	2,881	-	-	208,000	34,564
Gulf	547,998	61,923	146,243	16,595	-	-	694,242	78,518
Total menhaden	**739,732**	**93,606**	**162,509**	**19,476**	-	-	**902,241**	**113,082**
Mullets	6,875	8,351	82	135	-	-	6,956	8,486
Ocean perch:								
Atlantic	7	8	346	412	-	-	353	420
Pacific	1	(3)	20,593	3,640	-	-	20,594	3,640

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Pollock:								
Atlantic	88	146	4,507	8,294	-	-	4,594	8,440
Walleye (Alaska)	32,931	5,082	1,022,085	157,730	-	-	1,055,016	162,812
Rockfishes:								
Bocaccio	9	11	188	188	-	-	197	199
Canary	11	13	761	800	-	-	772	813
Chilipepper	164	168	755	773	-	-	919	941
Widow	24	23	4,218	3,557	-	-	4,242	3,580
Yellowtail	16	18	3,451	2,920	-	-	3,468	2,938
Other	1,183	1,784	17,897	20,183	-	-	19,080	21,967
Total rockfishes	**1,407**	**2,017**	**27,271**	**28,421**	-	-	**28,678**	**30,438**
Sablefish	2,697	11,914	19,191	85,234	-	-	21,888	97,148
Salmon:								
Chinook or king	5,078	18,771	1,851	6,752	-	-	6,929	25,523
Chum or keta	65,294	25,739	1	(3)	-	-	65,295	25,739
Pink	173,314	52,431	1	1	-	-	173,316	52,432
Red or sockeye	110,836	233,308	0	(3)	-	-	110,836	233,308
Silver or coho	12,730	21,483	529	1,300	-	-	13,259	22,783
Total salmon	**354,522**	**351,732**	**1,853**	**8,053**	-	-	**369,635**	**359,785**
Sardines:								
Pacific	42,194	3,710	17,751	1,553	-	-	59,944	5,263
Spanish	536	191	-	-	-	-	536	191
Scup or porgy	704	2,133	1,055	2,650	-	-	1,760	4,783
Sea bass:								
Black (Atlantic)	429	1,634	1,288	4,443	-	-	1,717	6,077
White (Pacific)	11	41	101	369	-	-	112	410
Sea trout or weakfish:								
Gray	2,230	3,055	916	1,132	-	-	3,146	4,187
Spotted	395	1,163	(3)	1	-	-	395	1,164
Sand (white)	51	76	44	32	-	-	95	108
Shad:								
American	1,155	1,111	39	37	-	-	1,195	1,148
Hickory	60	29	2	1	-	-	62	30

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Sharks:								
Dogfish	3,562	1,243	13,090	4,708	-	-	16,652	5,951
Other	410	560	4,807	5,272	1,456	794	6,673	6,626
Sheepshead (Atlantic)	1,178	985	5	4	-	-	1,183	989
Skates	4,504	1,154	9,731	2,536	-	-	14,235	3,690
Smelts	769	913	3	1	-	-	772	914
Snappers:								
Red	53	521	2,089	9,971	-	-	2,142	10,492
Vermillion	(3)	(3)	732	3,474	-	-	732	3,474
Unclassified	166	746	1,644	6,966	-	-	1,810	7,712
Spearfish	5	10	109	203	100	185	215	398
Spot	2,550	2,151	49	40	-	-	2,599	2,191
Striped bass	2,976	10,876	29	111	-	-	3,005	10,987
Swordfish	111	477	3,993	19,780	3,162	13,179	7,267	33,436
Tenpounder (ladyfish)	1,964	1,996	3	2	-	-	1,967	1,998
Tilefish	30	148	909	3,892	-	-	939	4,040
Trout, Rainbow	82	101	-	-	-	-	82	101
Tuna:								
Albacore	204	467	6,349	11,977	7,540	14,345	14,092	26,789
Bigeye	43	301	2,191	15,152	4,674	12,192	6,908	27,645
Bluefin	9	56	1,179	15,296	31	221	1,220	15,573
Little tunny	111	48	403	579	-	-	514	627
Skipjack	409	1,091	655	1,388	150,276	99,301	151,340	101,780
Yellowfin	463	2,229	2,665	12,335	40,495	33,396	43,623	47,960
Unclassified	7	28	114	281	78	89	199	398
Total tuna	**1,246**	**4,220**	**13,557**	**57,008**	**203,094**	**159,544**	**217,896**	**220,772**
Whitefish, common	5,353	9,982	-	-	-	-	5,353	9,982
Wolffish, Atlantic	10	9	248	234	-	-	258	243
Yellow perch	537	2,584	-	-	-	-	537	2,584
Other marine finfishes	10,169	15,511	10,544	14,213	925	3,167	21,638	32,891
Other freshwater finfishes	9,130	6,887	538	296	-	-	9,668	7,183
Total finfish	**1,386,963**	**635,443**	**2,139,371**	**880,854**	**208,751**	**176,906**	**3,735,085**	**1,693,203**

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Shellfish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Clams:								
Quahog (hard)	3,808	44,798	-	-	-	-	3,808	44,798
Geoduck (Pacific)	679	15,437	(3)	(3)	-	-	679	15,437
Manila (Pacific)	314	4,529	-	-	-	-	314	4,529
Ocean quahog	3,104	3,709	14,452	14,826	-	-	17,556	18,535
Softshell	1,204	12,397	-	-	-	-	1,204	12,397
Surf (Atlantic)	13,593	16,953	13,091	13,478	-	-	26,685	30,431
Other	660	8,897	(3)	(3)	-	-	660	8,897
Total clams	**23,364**	**106,720**	**27,543**	**28,304**	-	-	**50,907**	**135,024**
Conch (snails)	856	2,331	654	1,659	-	-	1,510	3,990
Crabs:								
Blue: Hard	89,141	150,482	-	-	-	-	89,141	150,482
Soft or peeler	2,709	20,799	-	-	-	-	2,709	20,799
Dungeness	14,000	62,294	2,079	8,817	-	-	16,080	71,111
Jonah	721	793	827	857	-	-	1,549	1,650
King	621	5,147	7,054	82,928	-	-	7,675	88,075
Snow (tanner):								
Opilio	-	-	83,007	161,037	-	-	83,007	161,037
Bairdi	982	4,746	(3)	(3)	-	-	982	4,746
Other	3,421	6,273	3,324	17,062	-	-	6,744	23,335
Total crabs	**111,595**	**250,534**	**96,291**	**270,701**	-	-	**207,887**	**521,235**
Crawfish, freshwater	5,322	8,347	-	-	-	-	5,322	8,347
Horseshoe crab	1,608	852	789	512	-	-	2,398	1,364
Lobsters:								
American	35,029	279,638	4,648	43,319	-	-	39,676	322,957
Spiny	1,109	11,787	1,926	17,967	-	-	3,036	29,754
Mussels, blue (sea)	899	1,046	-	-	-	-	899	1,046
Oysters	12,239	72,658	-	-	-	-	12,239	72,658

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1999 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Shellfish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Scallops:								
Bay.	16	181	-	-	-	-	16	181
Calico, Atlantic	851	1,598	1,011	2,283	-	-	1,862	3,881
Sea	1,020	12,293	9,431	112,997	-	-	10,450	125,290
Shrimp:								
New England	543	1,160	1,187	2,419	-	-	1,729	3,579
South Atlantic	11,761	58,988	1,936	9,598	-	-	13,697	68,586
Gulf	57,948	185,464	49,316	278,714	-	-	107,265	464,178
Pacific	3,316	8,988	11,955	15,053	-	-	15,272	24,041
Other	5	59	5	59	-	-	9	118
Total shrimp	**73,573**	**254,659**	**64,399**	**305,843**	-	-	**137,972**	**560,502**
Squid:								
Atlantic:								
Illex	1,805	1,064	5,529	2,788	-	-	7,334	3,852
Loligo	4,027	7,238	14,722	24,938	-	-	18,749	32,176
Unclassified	82	104	283	86	-	-	366	190
Pacific:								
Loligo	86,129	33,201	4,533	1,747	-	-	90,662	34,948
Unclassified	6	5	-	-	-	-	6	5
Total, squid	**92,050**	**41,612**	**25,068**	**29,559**	-	-	**117,118**	**71,171**
Other shellfish	6,351	8,545	279	1,174	-	-	6,630	9,719
Total shellfish	**365,882**	**1,052,801**	**232,040**	**814,318**	-	-	**597,922**	**1,867,119**
Other								
Sea urchin	15,216	35,642	2	5	-	-	15,218	35,647
Seaweed, unclassified	78,999	525	-	-	-	-	78,999	525
Kelp (with herring eggs)	236	1,543	(3)	(3)	-	-	236	1,543
Worms	343	3,956	-	-	-	-	343	3,956
Total other	**94,795**	**41,666**	**2**	**5**	-	-	**94,797**	**41,671**
Grand total, 1999	**1,847,640**	**1,729,910**	**2,371,413**	**1,695,177**	**208,751**	**176,906**	**4,427,804**	**3,601,993**
Grand total, 1998	**1,564,205**	**1,542,845**	**2,588,977**	**1,553,368**	**198,984**	**198,148**	**4,352,167**	**3,294,361**

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.
(3) Less than .5 MT or $500. (4) Data are confidential and included with other shellfish.
NOTE:—Data are preliminary. Totals may not agree due to roundings. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters or clams.

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1999 (1)

Group / Species	Puerto Rico		Guam	
Fish	Pounds	Dollars	Pounds	Dollars
Ballyhoo	60,400	70,668	-	-
Barracuda	29,583	46,445	2,847	5,917
Billfish:				
Marlin	-	-	30,711	36,437
Sailfish	-	-	974	1,295
Spearfish	-	-	28	34
Dolphin (Mahi mahi)	125,784	238,990	89,283	185,916
Emperors	-	-	1,539	4,544
Goatfish	37,213	63,262	-	-
Groupers:				
Red hind	66,648	139,294	-	-
Nassau	6,288	11,444	-	-
Other	48,448	101,256	2,893	7,350
Grunts				
Margate	953	886	-	-
Other	159,610	244,203	-	-
Hogfish	39,458	84,440		
Jacks:				
Amberjack	-	-	736	1,934
Bigeye Scad	-	-	11,579	29,393
Rainbow Runner	-	-	3,466	7,401
Rudderfish	-	-	-	-
Other	66,488	101,727	2,626	6,559
Mackerel, king and cero	181,503	357,561	-	-
Milkfish	-	-	-	-
Mojarra	17,860	27,504	-	-
Mullet	68,055	83,027	-	-
Parrotfish	92,800	139,200	3,142	8,961
Rabbitfish	-	-	5,494	17,202
Scup or porgy	42,148	70,387	-	-
Sharks, other	53,540	86,199	105	315
Snappers:				
Ehu	-	-	835	3,322
Gindai (Flower Snapper)	-	-	998	3,994
Kalikali	-	-	1,489	5,179
Lane	311,780	648,502	-	-
Lehi	-	-	1,436	5,684
Mutton	116,868	258,278	-	-
Onaga	-	-	14,841	60,524
Opakapaka	-	-	1,180	4,600
Silk	187,813	539,023	-	-
Uku (Gray Snapper)	-	-	534	1,475
Yellowtail	317,595	759,052	-	-
Other	87,460	188,914	268	635
Total snappers	**1,021,516**	**2,393,769**	**21,581**	**85,413**
Snook	47,568	82,768	-	-
Spanish sardine	21,753	29,149	-	-
Squirrelfish	17,665	26,144	97	291
Surgeonfishes:				
Unicornfish	-	-	244	732
Other	-	-	60	179
Tarpon	1,638	442	-	-
Tilapia		-	-	-
Triggerfish	57,495	97,167	-	-
Trunkfish (boxfish)	91,000	172,900	-	-

(Continued)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1999 (1) - Continued

Group / Species	Puerto Rico		Guam	
Fish	Pounds	Dollars	Pounds	Dollars
Tuna:				
Dogtooth	-	-	2,618	3,746
Kawakawa	-	-	264	353
Skipjack	-	-	41,590	54,959
Yellowfin	-	-	33,475	66,665
Unclassified	192,610	273,506	17	45
Total tuna	**192,610**	**273,506**	**77,964**	**125,768**
Wahoo	-	-	41,752	93,018
Wrasse (Hogfish)	-	-	3,684	9,605
Other marine finfishes	204,311	176,610	184,144	549,556
Other freshwater fish	-	-	-	
Total fish	**2,752,335**	**5,118,948**	**484,949**	**1,177,820**
Shellfish, et al				
Crabs, other	1,710	21,375	109	1,004
Lobster, spiny	355,285	1,936,303	3,306	12,643
Conch (snail) meats	197,690	436,895	-	-
Oysters	435	653	-	-
Octopus	37,993	99,922	4,733	13,470
Shrimp	-	-	353	2,473
Shellfish, other	13,183	35,726	58	202
Total shellfish, et al.	**606,296**	**2,530,873**	**8,559**	**29,792**
Grand total	**3,358,631**	**7,649,821**	**493,508**	**1,207,612**

Group / Species	American Samoa		Northern Marianas Islands	
Fish	Pounds	Dollars	Pounds	Dollars
Barracudas	947	1,722	46	86
Billfishes:				
Blue marlin	28,853	32,671	3,541	5,939
Sailfish	5,496	7,746	50	100
Dolphin (mahimahi)	29,091	46,894	12,882	28,880
Emperors	1,269	2,502	8,396	22,520
Goatfish	-	-	1,272	3,561
Groupers:				
Lunartail	516	1,060	-	-
Other	748	1,554	3,901	11,629
Jacks:				
Amberjack	-	-	343	1,191
Bigeye Scad	668	1,180	10,210	29,565
Black jack	1,005	2,069	-	-
Rainbow runner	107	195	1,305	2,898
Rudderfish	879	1,758	178	616
Other	283	630	2,019	6,761
Moonfish (Opah)	1,779	3,558	-	-
Mullet	429	1,704	31	78
Oilfish	33	50	-	-
Parrotfishes	16,375	31,635	4,079	13,803
Rabbitfish	9	18	7,100	22,736
Snappers:				
Blue lined snapper	836	1,681	-	-
Ehu	4,063	12,918	821	2,872
Gindai (flower snapper)	116	272	3,686	12,824
Gray jobfish	815	1,630	-	-
Humpback	918	1,998	-	-
Kalikali	-	-	6	22

(Continued)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1999 (1) - Continued

Group / Species	American Samoa		Northern Marianas Islands	
Fish	Pounds	Dollars	Pounds	Dollars
Lehi (silverjaw)	666	1,819	9,986	42,552
Onaga	1,788	5,683	17,351	75,171
Opakapaka	-	-	1,772	5,995
Stone's snapper	427	855	-	-
Yellow opakapaka	702	1,865	-	-
Snappers, other	1,044	2,747	863	1,867
Total snappers	**11,375**	**31,468**	**34,485**	**141,303**
Squirrelfish	2,721	5,491	916	2,941
Sunfish (Mola mola)	-	-	-	-
Surgeonfishes:				
Lined surgeon	-	-	-	-
Striped bristletooth	-	-	-	-
Unicornfishes	3,453	6,976	2,491	7,982
Yellowfin	-	-	-	-
Other	32,719	66,318	3,373	10,918
Swordfish	775	1,782	-	-
Tunas:				
Albacore	663,405	733,409	-	-
Bigeye	18,188	26,671	-	-
Dogtooth	200	313	11,316	26,212
Kawakawa	71	114	-	-
Skipjack	43,812	34,838	106,359	199,480
Yellowfin	128,388	177,955	24,199	50,634
Other	48	84	6,191	10,839
Total, tuna	**854,112**	**973,384**	**148,065**	**287,165**
Wahoo	37,972	59,260	7,994	19,715
Wrasses	194	389	139	397
Other finfishes	10,729	18,609	169,217	412,401
Total fish	**1,042,537**	**1,300,623**	**422,033**	**1,033,185**
Shellfish, et al				
Crabs	60	142	-	-
Lobster, spiny	2,205	7,412	3,118	17,200
Octopus	1,422	2,747	333	861
Shellfish, Other	62	120	4	14
Total shellfish, et al.	**3,749**	**10,421**	**3,455**	**18,075**
Grand total	**1,046,286**	**1,311,044**	**425,488**	**1,051,260**

(1) Data in this table are preliminary and represent the latest information available.

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1993 - 1998

Species	1993			1994		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	20,574	9,332	63,033	21,709	9,847	68,714
Catfish	459,013	208,207	325,432	439,269	199,251	344,475
Salmon	25,279	11,466	68,358	24,714	11,210	61,915
Striped bass	5,950	2,699	14,270	7,625	3,459	18,835
Tilapia	12,500	5,670	15,625	12,980	5,888	16,225
Trout	54,642	24,785	54,309	52,075	23,621	52,569
Shellfish:						
Clams	6,125	2,778	12,096	4,872	2,210	14,023
Crawfish	56,784	25,757	28,518	49,080	22,263	26,994
Mussels	308	140	927	424	192	1,249
Oysters	24,399	11,067	76,139	28,016	12,708	69,928
Shrimp (SW)	6,614	3,000	26,455	4,409	2,000	17,637
Miscellaneous	6,613	3,000	97,232	20,462	9,282	58,545
Totals	**678,801**	**307,902**	**782,394**	**665,635**	**301,930**	**751,109**

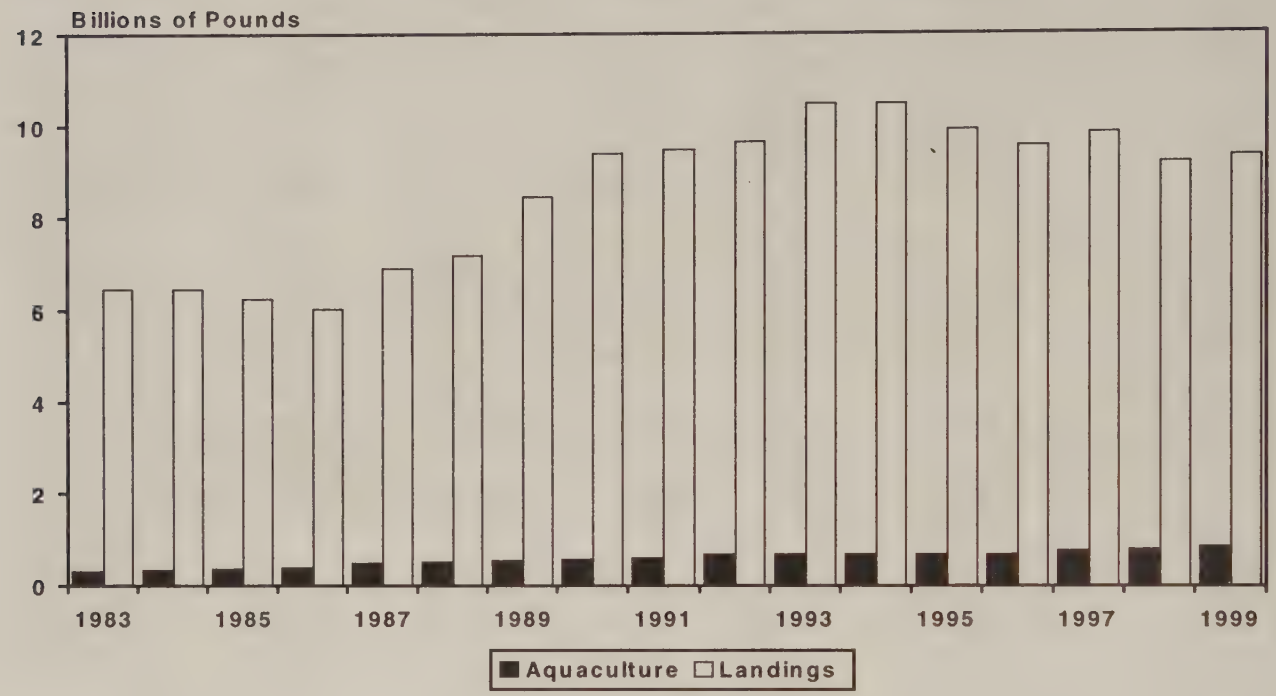
Species	1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	21,759	9,870	72,522	20,849	9,457	70,254
Catfish	446,886	202,706	351,222	472,123	214,154	364,951
Salmon	31,315	14,204	75,991	30,657	13,906	60,995
Striped bass	8,315	3,772	21,156	7,850	3,561	20,308
Tilapia	15,075	6,838	22,613	15,965	7,242	23,948
Trout	55,934	25,371	61,447	53,620	24,322	56,958
Shellfish:						
Clams	4,325	1,962	19,709	3,834	1,739	20,315
Crawfish	58,146	26,375	34,714	46,584	21,130	34,820
Mussels	410	186	1,221	986	447	5,085
Oysters	23,221	10,533	70,628	18,546	8,412	64,368
Shrimp (SW)	2,205	1,000	8,818	2,866	1,300	11,464
Miscellaneous(1)	23,359	10,596	75,243	19,813	8,987	152,169
Totals	**690,950**	**313,413**	**815,284**	**693,693**	**314,657**	**885,635**

Species	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	19,929	9,040	73,580	16,389	7,434	57,392
Catfish	524,949	238,115	372,497	564,355	255,990	419,094
Salmon	39,745	18,028	65,053	32,017	14,523	62,694
Striped bass	8,400	3,810	21,783	9,385	4,257	24,128
Tilapia	16,860	7,648	29,505	18,191	8,251	27,287
Trout	56,710	25,723	60,212	55,103	24,995	59,710
Shellfish:						
Clams	9,243	4,193	26,753	9,735	4,416	29,612
Crawfish	49,232	22,331	49,232	37,945	17,212	23,649
Mussels	597	271	3,365	527	239	2,801
Oysters	15,737	8,289	39,031	18,157	8,236	47,951
Shrimp (SW)	2,646	1,200	10,582	4,409	2,000	17,637
Miscellaneous(1)	22,625	9,930	177,994	23,495	10,657	166,688
Totals	**766,673**	**347,761**	**929,587**	**789,708**	**358,209**	**938,643**

NOTE:—Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. (1) "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value, but not weight, are reported for many species such as ornamental fishes. SW:—Saltwater

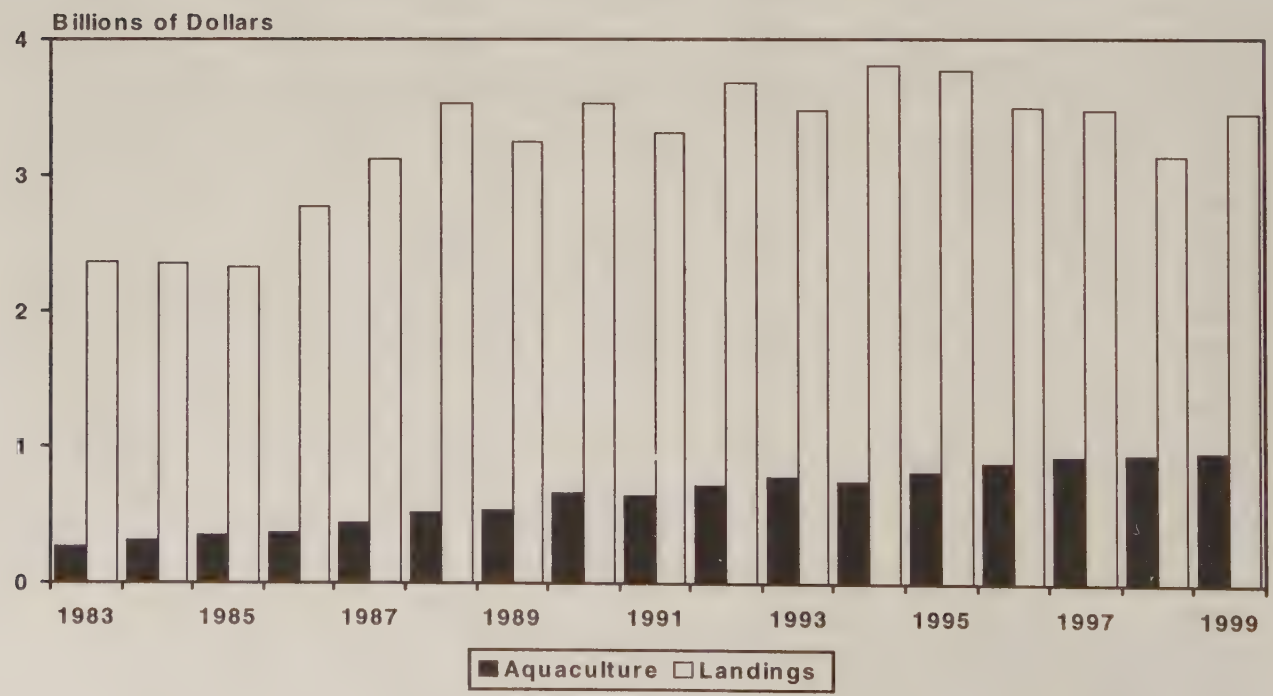
U.S. Commercial Landings

Volume of Domestic Commercial Landings and Aquaculture Production



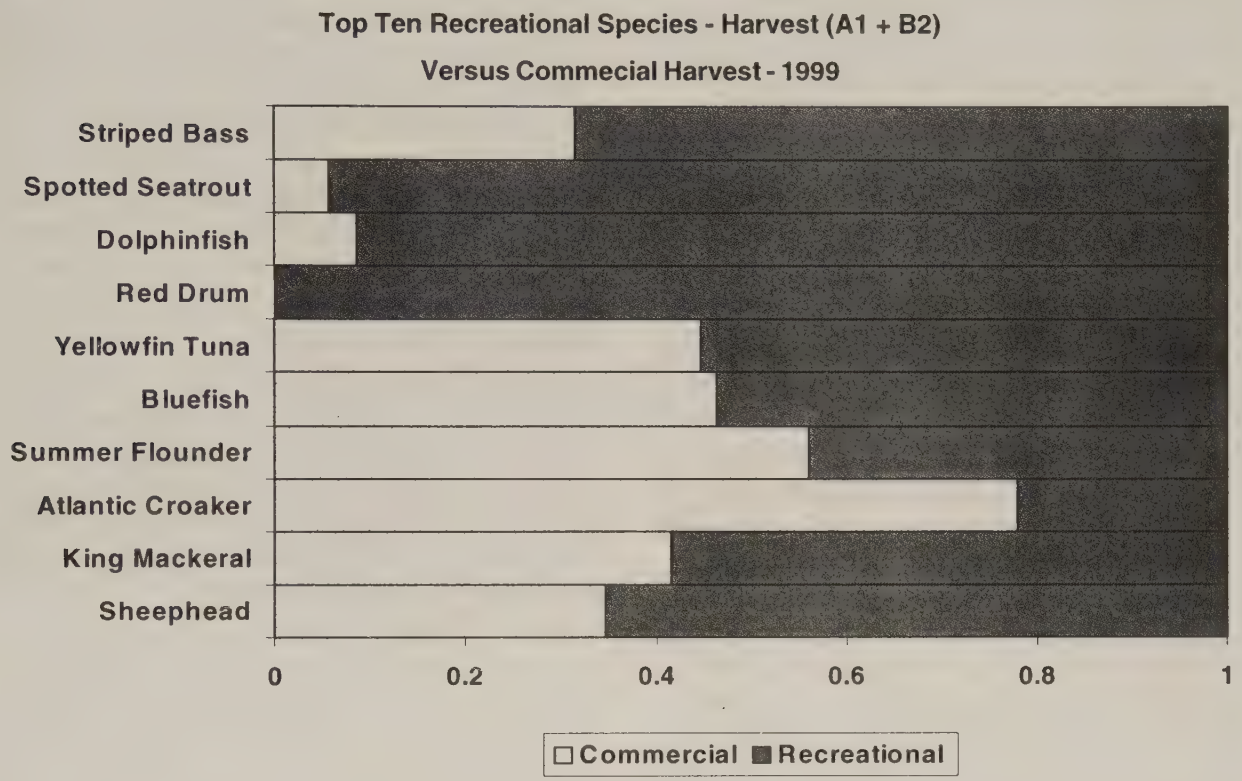
Value of Domestic Commercial Landings and Aquaculture Production

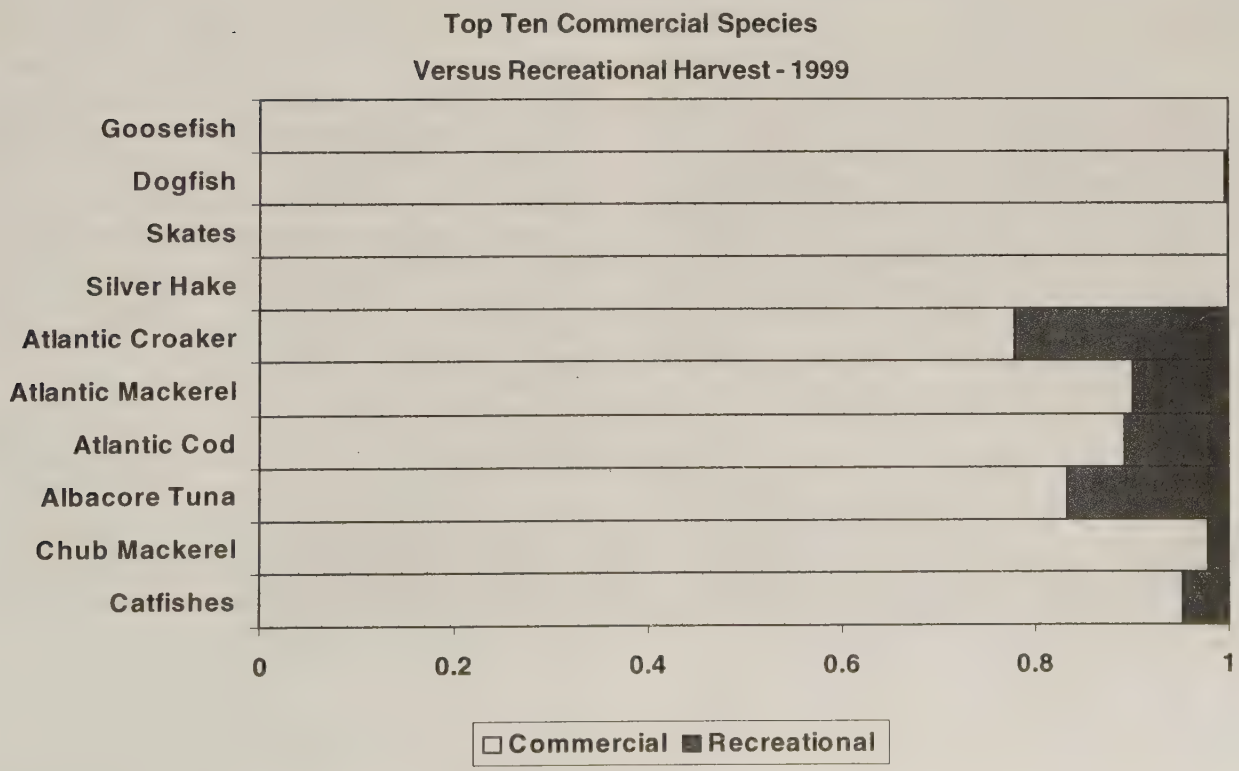
Note: The 1999 aquaculture production is estimated



U.S. Commercial Landings

Comparisons between the top ten species in descending order of abundance by weight for U.S. commercial landings and recreational fish harvests. Does not include data for Alaska, Hawaii and Texas because no NMFS recreational surveys are conducted in those states. Menhaden, Pacific Hake, Atlantic Sea Herring and Pacific Sardine were excluded from commercial landings because they are industrial fisheries and recreational anglers do not target them.





DATA COLLECTION. Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes as outlined in the Sustainable Fisheries Act, Public Law 94-265. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS). Although the recreational harvest is only about 6 percent of the total U.S. harvest of finfish for MRFSS states (see MRFSS coverage page), it is important to managers because the fishing activities of millions of marine anglers are directed at relatively few species. Data collected through the MRFSS show that recreational fisheries have tremendous impacts on many recreationally important species. For some species recreational landings surpass commercial landings (see figure on preceding page).

METHODOLOGY. The MRFSS consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. The intercept survey collects data on species composition, catch rates, and fish lengths and weights. The telephone survey collects data on the number of marine fishing trips. These data are combined to produce estimates of catch, effort, and participation. Catch is divided into three categories – type A, type B1 and type B2. Type A catch is fish that were caught, landed whole and were available for identification, enumeration, weighing and measuring by trained MRFSS field personnel. Type B1 catch includes fish that were caught, filleted, released dead, given away, or disposed of in some other way so that the interviewer could not verify the species, sizes, or numbers reported. Fish that were caught and reported as released alive are in the Type B2 category. Estimates are generated by subregion, state, wave (bimonthly sampling period), species, mode (private/rental boat, party/charter boat, and shore), primary area fished and catch type. In addition, economic and demographic data are also obtained.

The MRFSS was conducted in 1999 in all coastal states except Texas, Alaska, and Hawaii. Sampling coverage varies across the time series (see MRFSS coverage page). Detailed information and access to the data are available on the Fisheries Statistics and Economics web page (www.st.nmfs.gov/st1). Data from other NMFS and state surveys (e.g. SE head boats, Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated harvest (number and weight of fish) is presented for 128 commonly caught species. The estimated harvest includes types A and B1 catch and does not include B2 type fish. Numbers of fish harvested and released alive are also presented for many important species groups. Estimated harvest is presented by subregion and primary fishing area: inland (sounds, rivers, bays), state territorial seas (ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend to 10 miles from shore), and Exclusive Economic Zone (EEZ) (ocean from the outer edge of the state territorial seas to 200 miles from shore). The total number of estimated trips and participants are presented by state.

1999 MRFSS DATA. In 1999, over 7.8 million people made 56.9 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated marine recreational finfish catch was 328.8 million fish. Over 59 percent of the number caught were released alive. The estimated total weight of the harvest was 198.7 million pounds.

The Atlantic coast accounted for the majority of total marine angling participants (55 percent), trips (62 percent), and total number of fish caught (54 percent). The Gulf coast (excluding Texas, see MRFSS coverage page) accounted for 25 percent of participants, 28 percent of trips, and 40 percent of the catch. The Pacific coast accounted for 20 percent of participants, 10 percent of trips, and 6 percent of the catch. Nationally, most (57 percent) of the recreational catch (in numbers of fish) came from inland waters, 30 percent from state territorial seas, and 13 percent from the EEZ. This distribution is different for the Atlantic and Gulf coasts versus the Pacific coast. On the Atlantic and Gulf the majority of the trips were taken in inland waters, while on the Pacific coast more trips were in the state territorial seas.

ATLANTIC. In 1999, 4.2 million marine recreational fishing participants took 35.0 million trips and caught a total of 178.5 million fish. Twenty-three percent of the trips were made in east Florida, followed by 14 percent in New Jersey, 13 percent in North Carolina, 9 percent in Massachusetts, 8 percent in New York, 8 percent in Maryland, and 8 percent in Virginia. Together, Connecticut, Rhode Island, and South Carolina accounted for 12 percent of the trips (4 percent each), and Delaware, Maine, Georgia, and New Hampshire accounted for 6 percent of the trips.

The most commonly caught non-bait species (numbers of fish) were Atlantic croaker, summer flounder, striped bass, bluefish, and black sea bass. By weight, the largest harvests were striped bass, dolphin, yellowfin tuna, summer flounder, and bluefish. The average weights for some of the top species were: 24.0 pounds for yellowfin tuna, 10.1 for striped bass, 7.1 for dolphin, 2.2 for bluefish, 2.0 for summer flounder, 1.1 for black sea bass, and 0.9 pounds for Atlantic croaker.

The total catch of striped bass increased steadily and dramatically from 1.8 million fish in 1990 to 17.5 million fish in 1997. In 1998 and 1999, total catch of striped bass declined slightly to 16.6 and 14.2 million fish, respectively. Over 90 percent of the striped bass catch was released alive in 1999. Summer flounder catches increased from 9.1 million fish in 1990 to 21.4 million fish in 1999. Atlantic croaker catch has shown no real trend since 1990, ranging from a low of 10.7 million fish in 1990 to a high of 23.2 million fish in 1994, with 1997 – 1999 catches consistently reaching 20.0 million fish. Bluefish, dolphin, and black sea bass catches remained relatively stable from 1992-1999.

The most commonly caught Atlantic coast species in federally managed waters were black sea bass, Atlantic croaker, summer flounder, dolphin, and Atlantic mackerel. The state territorial sea accounted for 29 percent of the total number of fish caught in the U.S. Atlantic, and the inland catch accounted for 58 percent.

GULF OF MEXICO. In 1999, 1.9 million marine recreational fishing participants took 15.9 million trips and caught a total of 129.9 million fish (excluding Texas). Seventy-one percent of the trips were made in west Florida, followed by 17 percent in Louisiana, 7 percent in Alabama and 5 percent in Mississippi.

The most commonly caught non-bait species (numbers of fish) were spotted seatrout (19 percent of total Gulf catch for all species), sand seatrout, red drum, white grunt, Atlantic croaker, red snapper, and gray snapper. By weight, the largest harvests were spotted seatrout, red drum, red snapper, sheepshead, dolphin, king mackerel, and sand seatrout. The average weights for some of the top species were: 8.6 pounds for king mackerel, 5.3 for dolphin, 4.4 for red drum, 3.8 for red snapper, 2.7 for sheepshead, 1.5 for gray snapper, 1.3 for spotted seatrout, and 0.7 pounds for sand seatrout.

Red snapper and sand seatrout catches reached 10 year highs in 1999 with 3.2 and 6.6 million fish respectively. Red drum, king mackerel, spotted seatrout, gray snapper, and sheepshead catches have remained relatively stable since 1992. Gulf dolphin catch has shown no real trend since 1992, ranging from a low of 388 thousand fish in 1992 to a high of over 1.0 million fish in 1997.

The most commonly caught Gulf coast species in federally managed waters were red snapper, white grunt, dolphin, black sea bass, and spotted seatrout. The percent of the total Gulf catch from the state territorial sea was 29 percent, and the inland catch accounted for approximately 59 percent.

PACIFIC. In 1999, 1.6 million marine recreational fishing participants took 6.0 million trips and caught a total of 20.0 million fish. Seventy percent of the trips were made in California, followed by 21 percent in Washington, and 9 percent in Oregon.

The most commonly caught non-bait species (numbers of fish) were surf smelt, Pacific (chub) mackerel, barred sand bass, black rockfish, Pacific barracuda, kelp bass, blue rockfish, and California halibut. By weight, the largest harvests were Pacific barracuda, black rockfish, lingcod, California halibut, and yellowtail. The average weights for some of the top species were: 14.3 pounds for yellowtail (a 5.8 pound increase from the 1998 average), 10.6 for California halibut, 8.2 for lingcod, 4.6 for Pacific barracuda, and 1.8 for black rockfish.

Lingcod and black rockfish catches have remained relatively stable since 1993. California halibut catches reached a 3-year high of 645 thousand fish. Surf smelt catches dropped from a 7 year high of 4.8 million fish in 1998 to 1.2 million fish in 1999. Pacific barracuda catch has shown no real trend since 1993, ranging from a low of 584,000 fish in 1996 to a high of 1.8 million fish in 1994. Pacific (chub) mackerel hit a 7-year low in 1999 with 1.2 million fish caught.

The most commonly caught Pacific coast species in federally managed waters were Pacific barracuda, yellowtail rockfish, Pacific (chub) mackerel, barred sand bass, greenspotted rockfish, California scorpionfish, and blue rockfish. The percent of the total Pacific catch from the state territorial sea was 49 percent, and the inland catch accounted for 35 percent.

Coverage of MRFSS Survey

1979-1999

The Marine Recreational Fisheries Statistics Survey provides coverage of saltwater sport fishing (including estuarine and brackish water) from private/rental boats, charter and head boats, and the shore on the Atlantic Coast (Maine-East Florida), Gulf Coast (Louisiana-West Florida), and Pacific coast (Washington through California).

Care is advised when comparing catch estimates for the MRFSS time series because of differences in sampling coverage.

- In the South Atlantic and Gulf sub-regions (NC-LA) the MRFSS has not collected catch data from head boats since 1985, so estimates for these sub-regions now only include charter boats in the for-hire sector.
- Marine recreational fishing in Texas is monitored by the Texas Department of Parks and Wildlife and has not been surveyed by the MRFSS since 1985.
- On the Pacific coast, ocean boat trips during certain waves and salmon trips are not sampled because they are surveyed through the state natural resource agencies.
- Alaska conducts an annual mail survey and has never been surveyed by the MRFSS.
- The U.S. Caribbean, Hawaii and West Pacific territories have not been surveyed by the MRFSS since 1981.

Historically, only about 5 percent of the annual recreational catch on the Atlantic and Gulf coasts is taken during Wave 1 (January - February). Costs to sample these months are very high due to low fishing activity. Therefore, in Jan/Feb of 1981 the MRFSS was not conducted in any region. In 1982, Jan/Feb data collection resumed on the Pacific and Gulf Coasts and also on the Atlantic Coast of Florida. With a few exceptions (GA 1985-1989, SC 1988, NC 1988-1992), the MRFSS has not been conducted in Jan/Feb on the Atlantic Coast north of Florida since 1980.

Exceptions to MRFSS Coverage:

Nov/Dec (ME & NH) - 1987 to present

Mar/Apr (ME & NH) - 1986 to present

Jan/Feb (No. CA-OR) - 1994

Jan/Feb (So. CA-OR) - 1995

Nov/Dec (OR) - 1994

All Waves (CA-WA) - 1990 to 1993

All Waves (WA) - 1993 to 1994

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1998 AND 1999

Species	1998			1999			Average (1995-99)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Anchovies**							
Northern Anchovy	(1)	(1)	3	54	24	104	12
Other Anchovies	-	-	-	(1)	(1)	(1)	(1)
Barracudas	1,162	527	150	1,192	541	139	1,531
Bluefish	12,774	5,796	4,430	8,610	3,906	3,856	12,590
California Scorpionfish	185	84	160	297	135	280	250
Cartilaginous Fishes							
Dogfish Sharks**	546	248	167	123	56	61	372
Skates/Rays**	101	46	70	195	88	81	163
Other Sharks**	2,665	1,209	286	2,790	1,266	209	4,539
Catfishes**							
Freshwater Catfishes	778	353	448	343	156	249	577
Saltwater Catfishes	885	402	525	654	297	460	963
Cods And Hakes							
Atlantic Cod	2,966	1,346	466	2,599	1,179	375	3,214
Pacific Cod	1	(1)	1	(1)	(1)	(1)	3
Pacific Hake	3	1	2	2	1	3	2
Pacific Tomcod	(1)	(1)	1	(1)	(1)	1	2
Pollock	283	128	185	196	89	218	441
Red Hake	144	65	115	59	27	118	181
Other Cods/Hakes	154	70	79	121	55	66	178
Croakers							
California Corbina	32	15	15	15	7	17	27
Queenfish	10	5	42	18	8	122	19
White Croaker	162	74	434	157	71	301	343
Other Croakers	221	100	119	499	226	93	268
Dolphins**	12,121	5,500	1,889	13,423	6,090	2,065	16,126
Drums							
Atlantic Croaker	8,211	3,726	10,010	7,628	3,461	10,090	6,575
Black Drum	2,794	1,267	715	2,012	913	723	2,238
Kingfishes	1,721	781	3,030	2,187	992	4,118	1,842
Red Drum	9,847	4,468	2,152	10,475	4,753	2,448	12,069
Sand Seatrout	1,815	823	2,808	2,833	1,285	4,998	2,032
Silver Perch	109	50	511	101	46	373	109
Spot	3,064	1,390	6,992	1,664	755	3,734	2,532
Spotted Seatrout	9,542	4,329	7,694	13,546	6,146	10,603	11,497
Weakfish**	4,044	1,835	2,390	3,143	1,426	1,652	3,132
Other Drum	98	45	218	212	96	778	152
Eels**	7	3	14	12	5	14	9
Flounders							
California Halibut**	939	426	106	1,297	588	124	1,338
Gulf Flounder	227	103	174	229	104	162	193
Rock Sole	13	6	14	7	3	5	15
Sanddabs	99	45	259	82	37	225	111
Southern Flounder	1,222	554	801	1,456	661	958	1,428
Starry Flounder	19	9	17	8	4	11	11
Summer Flounder	12,519	5,680	7,003	8,382	3,803	4,123	9,614
Winter Flounder	718	326	648	768	348	724	1,257
Other Flounders**	858	389	185	676	307	168	557

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1998 AND 1999

Species	1998			1999			Average (1995-99)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Greenlings							
Kelp Greenling	117	53	98	115	52	89	134
Lingcod	1,283	582	160	1,398	634	172	1,110
Other Greenlings	7	3	12	3	2	8	19
Grunts							
Pigfish	337	153	933	357	162	933	443
White Grunt	1,253	569	1,809	1,381	627	1,749	1,592
Other Grunts	313	142	694	300	136	577	385
Herrings**	964	437	26,927	648	294	23,278	1,119
Jacks							
Blue Runner	1,227	557	1,869	750	340	860	889
Crevalle Jack	901	409	511	1,316	597	612	1,516
Florida Pompano	691	314	522	593	269	407	473
Greater Amberjack	1,287	584	91	2,696	1,223	140	1,821
Yellowtail	5,697	2,585	673	807	366	56	2,157
Other Jacks	415	189	534	806	366	1,360	404
Mullets**	2,673	1,213	3,240	2,240	1,016	5,710	2,281
Pacific Barracuda	2,057	933	450	1,988	902	423	1,849
Porgies							
Pinfishes	2,268	1,029	7,593	1,532	695	5,112	1,705
Red Porgy	76	35	81	87	39	81	134
Scup**	875	397	1,212	1,886	856	3,251	1,493
Sheepshead	4,403	1,998	1,742	4,789	2,173	1,905	5,412
Other Porgies**	111	51	149	102	46	170	213
Puffers	63	29	148	59	27	175	105
Rockfishes							
Black Rockfish	2,459	1,116	1,178	1,706	774	956	1,525
Blue Rockfish	859	390	841	712	323	673	638
Bocaccio	124	56	40	312	141	92	167
Brown Rockfish	92	42	81	149	67	121	110
Canary Rockfish	185	84	107	271	123	163	215
Chilipepper Rockfish	18	8	9	11	5	44	23
Copper Rockfish	241	109	157	223	101	136	214
Greenspotted Rockfish	33	15	40	98	44	133	85
Olive Rockfish	110	50	77	76	34	68	84
Quillback Rockfish	97	44	53	78	35	42	65
Rockfishes	78	35	102	123	56	154	85
Widow Rockfish	98	44	67	78	35	44	58
Yellowtail Rockfish	447	203	274	718	326	403	412
Other Rockfishes**	751	341	1,108	1,641	744	1,914	1,236
Sablefishes	9	4	1	(1)	(1)	(1)	5
Sculpins							
Cabezon	293	133	91	209	95	60	226
Sculpins	18	8	38	13	6	42	20
Sea Basses							
Barred Sand Bass	685	311	408	661	300	456	969
Black Sea Bass	1,674	760	1,697	2,245	1,019	2,000	4,203
Epinephelus Groupers**	994	451	154	1,405	637	213	1,300
Kelp Bass	511	232	326	338	154	236	719
Mycteroperca Groupers**	4,493	2,038	641	4,595	2,085	652	3,702
Spotted Sand Bass	22	10	17	38	17	30	65
Other Sea Basses	99	45	317	67	30	282	114

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1998 AND 1999

Species	1998			1999			Average (1995-99)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Sea Chubs**							
Halfmoon	15	7	21	41	19	41	38
Opaleye	72	33	87	49	22	39	67
Other Sea Chubs	-	-	-	2	1	2	5
Searobins	106	48	202	78	35	122	132
Silversides							
Jacksmelt	149	68	366	102	46	272	198
Other Silversides	3	2	29	7	3	44	10
Smelts**							
Surf Smelt	357	162	4,825	28	13	1,217	220
Other Smelts	-	-	-	(1)	(1)	4	(1)
Snappers							
Gray Snapper	1,409	639	1,072	1,345	610	1,038	1,337
Lane Snapper	230	104	205	181	82	195	259
Red Snapper	4,373	1,984	1,336	4,651	2,110	1,266	3,856
Vermilion Snapper	353	160	294	541	245	540	435
Yellowtail Snapper	437	198	352	326	148	268	449
Other Snappers**	296	134	82	298	135	78	330
Sturgeons	566	257	32	617	280	19	614
Surfperches							
Barred Surfperch	534	242	646	158	72	210	314
Black Perch	62	28	94	27	12	38	57
Pile Perch	49	22	60	20	9	18	51
Redtail Surfperch	91	41	92	57	26	60	70
Shiner Perch	4	2	85	5	2	91	9
Silver Surfperch	12	5	43	29	13	86	21
Striped Seaperch	179	81	199	39	18	44	122
Walleye Surfperch	15	7	59	18	8	68	31
White Seaperch	5	2	22	9	4	21	12
Other Surfperches	55	25	135	53	24	65	56
Temperate Basses							
Striped Bass	13,459	6,107	1,483	14,409	6,538	1,451	14,212
White Perch	614	279	1,834	426	193	1,113	699
Other Temperate Basses	7	3	6	(1)	(1)	(1)	2
Toadfishes	2	1	10	(1)	(1)	9	1
Triggerfishes/Filefishes	775	351	390	757	343	390	935
Tunas And Mackerels							
Atlantic Mackerel	1,520	690	1,874	2,943	1,335	3,236	2,799
King Mackerel**	8,719	3,956	965	7,156	3,247	812	9,519
Little Tunny / Atl.Bonito**	2,913	1,322	378	2,633	1,195	382	3,044
Pacific Bonito**	347	157	71	5	2	2	208
Spanish Mackerel	2,915	1,323	1,787	3,597	1,632	2,540	3,081
Other Tunas/Mackerels**	13,933	6,321	2,132	17,592	7,982	1,359	16,798
Wrasses							
California Sheephead	153	69	49	182	83	63	147
Cunner	10	4	94	61	28	103	35
Tautog	1,479	671	358	2,532	1,149	688	2,793
Other Wrasses	114	52	71	182	83	97	222
Other Fishes**	8,834	4,008	5,931	9,854	4,471	6,759	9,511
Total Fish	**199,633**	**90,580**	**140,371**	**198,695**	**90,146**	**135,681**	--

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE:– ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

NOTE: Small differences in 1998 values from values appearing in FUS 1998 are due to post-publication data corrections.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Anchovies												
Northern Anchovy	-	-	-	(1)	0	3	54	24	100	54	24	103
Other Anchovies	-	-	-	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Barracudas	628	285	58	429	194	54	135	61	27	1,192	540	139
Bluefish	1,386	629	443	5,393	2,447	1,430	1,831	831	1,983	8,610	3,907	3,856
California Scorpionfish	197	89	199	99	45	79	1	(1)	2	297	134	280
Cartilaginous Fishes												
Dogfish Sharks**	31	14	19	82	37	35	10	4	7	123	55	61
Skates/Rays**	4	2	1	109	50	54	81	37	27	194	89	82
Other Sharks**	448	203	29	2,149	975	132	193	88	48	2,790	1,266	209
Catfishes**												
Freshwater Catfishes	(1)	(1)	(1)	313	142	228	30	14	21	343	156	249
Saltwater Catfishes	3	1	1	367	167	194	284	129	265	654	297	460
Cods And Hakes												
Atlantic Cod	1,813	822	251	785	356	124	1	1	(1)	2,599	1,179	375
Pacific Cod	-	-	-	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Pacific Hake	(1)	(1)	2	2	1	(1)	-	-	-	2	1	(1)
Pacific Tomcod	-	-	-	0	0	(1)	(1)	(1)	1	(1)	(1)	1
Pollock	63	29	29	110	50	109	23	10	80	196	89	218
Red Hake	59	27	118	0	0	0	-	-	-	59	27	(1)
Other Cods/Hakes	81	37	55	39	18	9	1	1	3	121	56	67
Croakers												
California Corbina	-	-	-	-	-	-	15	7	17	15	7	17
Queenfish	(1)	(1)	(1)	6	3	27	12	5	95	18	8	122
White Croaker	15	7	30	88	40	157	54	24	115	157	71	302
Other Croakers	196	89	12	258	117	32	45	20	50	499	226	94
Dolphins**	6,376	2,893	964	7,046	3,197	1,100	-	-		13,422	6,090	2,064
Drums												
Atlantic Croaker	615	279	806	6,256	2,839	7,648	757	343	1,636	7,628	3,461	10,090
Black Drum	87	40	21	1,532	695	523	393	178	180	2,012	913	724
Kingfishes	27	12	41	1,262	573	2,251	898	408	1,826	2,187	993	4,118
Red Drum	1,036	470	171	8,592	3,898	2,112	847	384	165	10,475	4,752	2,448
Sand Seatrout	175	80	309	1,847	838	2,943	810	368	1,746	2,832	1,286	4,998
Silver Perch	(1)	(1)	(1)	66	30	204	36	16	169	102	46	373
Spot	24	11	68	982	446	1,917	658	299	1,749	1,664	756	3,734
Spotted Seatrout	812	368	602	11,768	5,340	9,322	965	438	679	13,545	6,146	10,603
Weakfish**	168	76	94	2,607	1,183	1,380	367	166	178	3,142	1,425	1,652
Other Drum	3	1	3	181	82	489	28	13	286	212	96	778
Eels**	(1)	(1)	1	12	5	6	(1)	(1)	7	12	5	14

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Flounders												
California Halibut**	157	71	18	1,126	511	104	15	7	1	1,298	589	123
Gulf Flounder	8	3	4	132	60	100	89	41	58	229	104	162
Rock Sole	1	1	1	2	1	3	4	2	1	7	4	5
Sanddabs	18	8	67	59	27	146	4	2	13	81	37	226
Southern Flounder	27	12	17	995	451	667	434	197	274	1,456	660	958
Starry Flounder	(1)	(1)	(1)	5	2	7	3	1	4	8	3	11
Summer Flounder	671	305	301	7,318	3,320	3,604	393	178	218	8,382	3,803	4,123
Winter Flounder	46	21	49	665	302	615	57	26	60	768	349	724
Other Flounders**	177	80	11	491	223	131	8	4	26	676	307	168
Greenlings												
Kelp Greenling	11	5	9	84	38	58	19	9	22	114	52	89
Lingcod	465	211	51	904	410	117	28	13	4	1,397	634	172
Other Greenlings	(1)	(1)	3	1	1	2	2	1	4	3	2	9
Grunts												
Pigfish	4	2	10	208	94	504	145	66	419	357	162	933
White Grunt	116	52	128	1,208	548	1,516	57	26	105	1,381	626	1,749
Other Grunts	3	1	22	188	85	396	110	50	159	301	136	577
Herrings**	1	(1)	36	267	121	14,976	381	173	8,266	649	294	23,278
Jacks												
Blue Runner	41	18	39	383	174	431	326	148	391	750	340	861
Crevalle Jack	37	17	6	764	347	405	515	234	201	1,316	598	612
Florida Pompano	3	2	2	210	95	127	380	172	278	593	269	407
Greater Amberjack	2,177	988	112	505	229	27	14	6	(1)	2,696	1,223	139
Yellowtail	373	169	25	431	196	31	2	1	(1)	806	366	56
Other Jacks	485	220	100	204	93	710	118	53	550	807	366	1,360
Mullets**	(1)	(1)	11	1,099	499	2,956	1,141	518	2,744	2,240	1,017	5,711
Pacific Barracuda	1,302	591	280	685	311	143	1	(1)	(1)	1,988	902	423
Porgies												
Pinfishes	9	4	23	842	382	2,531	681	309	2,559	1,532	695	5,113
Red Porgy	71	32	71	15	7	10	-	-	-	86	39	(1)
Scup**	459	208	822	1,336	606	2,231	90	41	198	1,885	855	3,251
Sheepshead	106	48	31	3,818	1,732	1,514	865	393	360	4,789	2,173	1,905
Other Porgies**	19	9	15	55	25	87	28	13	68	102	47	170
Puffers	(1)	(1)	(1)	14	6	60	46	21	115	60	27	175

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	626	284	319	1,052	477	616	28	13	21	1,706	774	956
Blue Rockfish	453	206	421	256	116	249	3	1	3	712	323	673
Bocaccio	256	116	69	54	25	20	1	1	3	311	142	92
Brown Rockfish	32	14	29	111	50	86	6	3	6	149	67	121
Canary Rockfish	181	82	98	90	41	65	-	-	-	271	123	(1)
Chilipepper Rockfish	5	2	36	6	3	7	-	-	-	11	5	(1)
Copper Rockfish	112	51	68	109	50	67	1	1	1	222	102	136
Greenspotted Rockfish	68	31	91	30	14	41	-	-	-	98	45	132
Olive Rockfish	63	29	56	13	6	12	(1)	(1)	(1)	76	35	68
Quillback Rockfish	17	8	10	60	27	31	1	(1)	(1)	78	35	41
Rockfishes	51	23	66	72	32	88	(1)	(1)	1	123	55	155
Widow Rockfish	73	33	39	5	2	6	-	-	-	78	35	45
Yellowtail Rockfish	606	275	318	112	51	85	(1)	(1)	(1)	718	326	403
Other Rockfishes**	1,046	475	1,319	588	267	586	7	3	9	1,641	745	1,914
Sablefishes	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Sculpins												
Cabezon	26	12	5	146	66	38	37	17	17	209	95	60
Sculpins	1	1	1	7	3	15	5	2	27	13	6	43
Sea Basses												
Barred Sand Bass	268	122	215	388	176	237	4	2	3	660	300	455
Black Sea Bass	744	337	676	1,474	669	1,290	28	13	34	2,246	1,019	2,000
Epinephelus Groupers**	273	124	40	1,130	513	171	1	(1)	2	1,404	637	213
Kelp Bass	119	54	97	216	98	136	4	2	4	339	154	237
Mycteroperca Groupers**	1,587	720	219	2,947	1,337	425	61	28	8	4,595	2,085	652
Spotted Sand Bass	(1)	(1)	(1)	37	17	29	1	(1)	1	38	17	30
Other Sea Basses	4	2	7	53	24	190	9	4	85	66	30	282
Sea Chubs**												
Halfmoon	22	10	22	19	8	19	(1)	(1)	(1)	41	18	41
Opaleye	1	(1)	1	32	14	20	16	7	18	49	21	39
Other Sea Chubs	-	-	-	-	-	-	2	1	2	2	1	2
Searobins	10	4	8	58	26	95	10	5	18	78	35	121
Silversides												
Jacksmelt	(1)	(1)	(1)	3	1	8	99	45	264	102	46	272
Other Silversides	-	-	-	(1)	(1)	(1)	7	3	43	7	3	43
Smelts												
Surf Smelt	-	-	-	(1)	(1)	(1)	28	13	1,217	28	13	1,217
Other Smelts	-	-	-	-	-	-	(1)	(1)	4	(1)	(1)	4

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1999

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Snappers												
Gray Snapper	136	62	58	1,020	463	783	189	86	197	1,345	611	1,038
Lane Snapper	27	12	23	150	68	166	4	2	5	181	82	194
Red Snapper	2,667	1,210	824	1,985	900	442	(1)	(1)	(1)	4,652	2,110	1,266
Vermilion Snapper	378	172	390	162	74	150	-	-	-	540	246	540
Yellowtail Snapper	163	74	121	161	73	145	2	1	2	326	148	268
Other Snappers**	88	40	14	190	86	52	20	9	12	298	135	78
Sturgeons	24	11	1	580	263	17	13	6	1	617	280	19
Surfperches												
Barred Surfperch	(1)	(1)	(1)	5	2	5	152	69	205	157	71	210
Black Perch	(1)	(1)	(1)	13	6	18	14	6	20	27	12	38
Pile Perch	-	-	-	6	3	5	14	6	13	20	9	18
Redtail Surfperch	-	-	-	-	-	-	57	26	60	57	26	60
Shiner Perch	-	-	-	(1)	(1)	(1)	5	2	91	5	2	91
Silver Surfperch	-	-	-	-	-	-	29	13	86	29	13	86
Striped Seaperch	-	-	-	11	5	11	28	13	33	39	18	44
Walleye Surfperch	-	-	-	1	0	2	18	8	66	19	8	68
White Seaperch	-	-	-	4	2	6	5	2	16	9	4	22
Other Surfperches	2	1	4	5	2	6	46	21	55	53	24	65
Temperate Basses												
Striped Bass	2,847	1,292	222	10,394	4,716	1,099	1,169	530	129	14,410	6,538	1,450
White Perch	(1)	(1)	(1)	283	128	709	143	65	404	426	193	1,113
Other Temperate Basses	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Toadfishes	(1)	(1)	(1)	(1)	(1)	2	(1)	(1)	7	(1)	(1)	9
Triggerfishes/Filefishes	402	182	224	346	157	161	9	4	5	757	343	390
Tunas And Mackerels												
Atlantic Mackerel	645	293	604	2,105	955	2,238	192	87	394	2,942	1,335	3,236
King Mackerel**	3,225	1,463	403	3,810	1,729	381	121	55	28	7,156	3,247	812
Little Tunny/Atlantic Bonito**	1,739	789	240	817	371	132	77	35	10	2,633	1,195	382
Pacific Bonito**	2	1	1	3	1	1	-	-	-	5	2	5
Spanish Mackerel	529	240	359	1,853	841	1,213	1,216	552	968	3,598	1,633	2,540
Other Tunas/Mackerels**	10,732	4,869	621	6,719	3,049	468	142	64	271	17,593	7,982	1,360
Wrasses												
California Sheephead	65	29	32	116	53	30	2	1	1	183	83	63
Cunner	2	1	10	18	8	13	41	18	80	61	27	103
Tautog	529	240	129	1,739	789	462	264	120	97	2,532	1,149	688
Other Wrasses	1	1	1	179	81	92	2	1	4	182	83	97
Other Fishes**	1,563	709	299	7,168	3,252	2,355	1,122	509	4,105	9,853	4,470	6,759
Grand Total	**53,444**	**24,248**	**15,401**	**125,305**	**56,854**	**82,567**	**19,940**	**9,049**	**37,716**	**198,689**	**90,151**	**135,103**

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE:– ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles (2) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Anchovies												
Northern Anchovy	54	24	102	(1)	(1)	2	-	-	-	54	24	104
Other Anchovies	-	-	-	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Barracudas	101	46	29	463	210	47	628	285	63	1,192	541	139
Bluefish	3,384	1,535	2,118	3,679	1,669	1,300	1,546	702	438	8,609	3,906	3,856
California Scorpionfish	10	5	9	202	92	187	84	38	83	296	135	279
Cartilaginous Fishes												
Dogfish Sharks**	73	33	28	38	17	17	13	6	16	124	56	61
Skates/Rays**	91	41	56	102	46	24	2	1	1	195	88	81
Other Sharks**	337	153	65	547	248	84	1,906	865	59	2,790	1,266	208
Catfishes**												
Freshwater Catfishes	343	156	249	(1)	(1)	(1)	(1)	(1)	(1)	343	156	249
Saltwater Catfishes	512	232	337	139	63	121	3	1	1	654	296	459
Cods And Hakes												
Atlantic Cod	1	1	(1)	265	120	51	2,332	1,058	324	2,598	1,179	375
Pacific Cod	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Pacific Hake	-	-	-	-	-	-	2	1	3	2	1	3
Pacific Tomcod	(1)	(1)	1	(1)	(1)	(1)	-	-	-	(1)	(1)	1
Pollock	56	25	118	48	22	51	93	42	49	197	89	218
Red Hake	-	-	-	-	-	-	59	27	118	59	27	118
Other Cods/Hakes	1	1	4	11	5	3	109	49	59	121	55	66
Croakers												
California Corbina	1	1	1	14	6	15	-	-	-	15	7	16
Queenfish	10	4	74	8	4	49	(1)	(1)	(1)	18	8	123
White Croaker	104	47	192	49	22	101	4	2	9	157	71	302
Other Croakers	42	19	46	448	203	46	8	4	1	498	226	93
Dolphins**	101	46	17	880	399	154	12,442	5,645	1,894	13,423	6,090	2,065
Drums												
Atlantic Croaker	6,090	2,763	7,953	1,009	458	1,385	530	240	751	7,629	3,461	10,089
Black Drum	1,550	703	541	383	174	163	78	36	19	2,011	913	723
Kingfishes	1,018	462	1,834	1,104	501	2,175	66	30	109	2,188	993	4,118
Red Drum	8,052	3,653	2,049	1,985	901	342	439	199	57	10,476	4,753	2,448
Sand Seatrout	1,709	775	3,210	998	453	1,605	126	57	183	2,833	1,285	4,998
Silver Perch	67	30	194	34	15	176	(1)	(1)	3	101	45	373
Spot	970	440	2,275	691	314	1,453	2	1	5	1,663	755	3,733
Spotted Seatrout	9,871	4,479	8,348	3,322	1,507	2,032	352	160	224	13,545	6,146	10,604
Weakfish**	2,091	949	1,079	909	413	481	142	65	91	3,142	1,427	1,651
Other Drum	95	43	566	47	21	151	70	32	61	212	96	778
Eels**	(1)	(1)	9	12	5	2	(1)	(1)	3	12	5	14

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles (2) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Flounders												
California Halibut**	275	125	26	948	430	92	74	33	6	1,297	588	124
Gulf Flounder	97	44	70	106	48	78	26	12	14	229	104	162
Rock Sole	6	3	4	1	(1)	1	(1)	(1)	(1)	7	3	5
Sanddabs	37	17	89	32	15	92	12	5	44	81	37	225
Southern Flounder	1,105	502	740	263	119	193	87	40	26	1,455	661	959
Starry Flounder	6	3	9	2	1	1	(1)	(1)	1	8	4	11
Summer Flounder	4,927	2,236	2,372	2,423	1,099	1,268	1,032	468	482	8,382	3,803	4,122
Winter Flounder	686	311	642	68	31	69	14	6	13	768	348	724
Other Flounders**	213	97	113	19	9	34	443	201	21	675	307	168
Greenlings												
Kelp Greenling	62	28	47	52	24	41	(1)	(1)	(1)	114	52	88
Lingcod	228	104	24	720	327	99	449	204	49	1,397	635	172
Other Greenlings	1	1	3	2	1	5	(1)	(1)	(1)	3	2	8
Grunts												
Pigfish	210	95	544	129	59	347	18	8	43	357	162	934
White Grunt	223	101	302	380	173	596	778	353	852	1,381	627	1,750
Other Grunts	131	59	155	152	69	258	16	7	164	299	135	577
Herrings**	534	242	14,888	114	52	6,296	1	(1)	2,094	649	294	23,278
Jacks												
Blue Runner	109	49	140	489	222	525	152	69	195	750	340	860
Crevalle Jack	791	359	453	432	196	131	94	43	28	1,317	598	612
Florida Pompano	259	117	149	309	140	244	25	11	13	593	268	406
Greater Amberjack	14	6	(1)	500	227	23	2,182	990	117	2,696	1,223	140
Yellowtail	-	-	-	744	338	51	63	28	6	807	366	57
Other Jacks	153	69	129	192	87	782	462	210	449	807	366	1,360
Mullets**	1,807	820	4,245	402	182	1,274	32	14	191	2,241	1,016	5,710
Pacific Barracuda	12	5	3	1,471	668	313	505	229	107	1,988	902	423
Porgies												
Pinfishes	971	440	3,113	481	218	1,720	81	37	279	1,533	695	5,112
Red Porgy	(1)	(1)	(1)	16	7	22	70	32	59	86	39	81
Scup**	1,361	618	2,295	375	170	676	150	68	280	1,886	856	3,251
Sheepshead	3,289	1,492	1,398	1,034	469	385	465	211	122	4,788	2,172	1,905
Other Porgies**	26	12	75	39	18	58	36	16	38	101	46	171
Puffers	21	10	102	33	15	68	5	2	5	59	27	175

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles (2) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	72	33	55	1,522	691	824	111	51	76	1,705	775	955
Blue Rockfish	10	5	12	591	268	560	110	50	102	711	323	674
Bocaccio	3	1	1	85	38	30	224	102	61	312	141	92
Brown Rockfish	8	4	7	124	56	102	16	7	12	148	67	121
Canary Rockfish	2	1	1	126	57	95	144	65	67	272	123	163
Chilipepper Rockfish	-	-	-	1	(1)	2	10	4	41	11	4	43
Copper Rockfish	67	31	42	107	49	72	48	22	22	222	102	136
Greenspotted Rockfish	-	-	-	10	5	18	88	40	115	98	45	133
Olive Rockfish	(1)	(1)	(1)	54	25	53	21	10	15	75	35	68
Quillback Rockfish	46	21	23	27	12	16	5	2	3	78	35	42
Rockfishes	(1)	(1)	(1)	106	48	137	16	7	17	122	55	154
Widow Rockfish	-	-	-	10	5	8	68	31	36	78	36	44
Yellowtail Rockfish	3	2	2	226	103	173	488	221	228	717	326	403
Other Rockfishes**	17	8	16	936	425	940	687	312	958	1,640	745	1,914
Sablefishes	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Sculpins												
Cabezon	49	22	13	144	65	42	16	7	5	209	94	60
Sculpins	9	4	33	3	1	9	1	(1)	(1)	13	5	42
Sea Basses												
Barred Sand Bass	71	32	44	442	200	312	148	67	100	661	299	456
Black Sea Bass	162	74	197	445	202	424	1,638	743	1,379	2,245	1,019	2,000
Epinephelus Groupers**	37	17	5	149	68	34	1,219	553	175	1,405	638	214
Kelp Bass	5	2	5	309	140	214	24	11	17	338	153	236
Mycteroperca Groupers**	295	134	43	841	382	134	3,459	1,570	474	4,595	2,086	651
Spotted Sand Bass	36	16	28	2	1	2	(1)	(1)	(1)	38	17	30
Other Sea Basses	12	6	62	14	6	88	40	18	132	66	30	282
Sea Chubs**												
Halfmoon	2	1	2	39	18	39	1	(1)	(1)	42	19	41
Opaleye	16	7	17	33	15	22	-	-	-	49	22	39
Other Sea Chubs	1	(1)	(1)	2	1	1	-	-	-	3	1	1
Searobins	25	11	33	38	17	53	15	7	35	78	35	121
Silversides												
Jacksmelt	86	39	224	16	7	48	(1)	(1)	(1)	102	46	272
Other Silversides	6	3	37	1	(1)	6	-	-	-	7	3	43
Smelts												
Surf Smelt	28	13	1,217	-	-	-	-	-	-	28	13	1,217
Other Smelts	(1)	(1)	4	-	-	-	-	-	-	(1)	(1)	4

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1999

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles (2) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Snappers												
Gray Snapper	506	229	570	324	147	254	516	234	214	1,346	610	1,038
Lane Snapper	19	9	24	53	24	69	109	50	102	181	83	195
Red Snapper	45	21	8	815	370	258	3,791	1,720	1,000	4,651	2,111	1,266
Vermilion Snapper	(1)	(1)	(1)	91	41	106	450	204	434	541	245	540
Yellowtail Snapper	1	(1)	1	88	40	73	237	108	194	326	148	268
Other Snappers**	21	9	14	92	42	28	185	84	36	298	135	78
Sturgeons	605	275	18	12	6	1	(1)	(1)	(1)	617	281	19
Surfperches												
Barred Surfperch	2	1	3	155	70	207	-	-	-	157	71	210
Black Perch	14	6	21	13	6	17	-	-	-	27	12	38
Pile Perch	16	7	14	5	2	3	-	-	-	21	9	17
Redtail Surfperch	12	5	11	45	21	49	-	-	-	57	26	60
Shiner Perch	5	2	84	0	0	7	-	-	-	5	2	91
Silver Surfperch	11	5	43	18	8	43	-	-	-	29	13	86
Striped Seaperch	22	10	28	17	8	16	-	-	-	39	18	44
Walleye Surfperch	11	5	35	8	4	33	-	-	-	19	9	68
White Seaperch	5	2	9	4	2	12	-	-	-	9	4	21
Other Surfperches	37	17	31	16	7	32	(1)	(1)	1	53	24	64
Temperate Basses												
Striped Bass	7,760	3,521	988	5,824	2,642	404	826	375	59	14,410	6,538	1,451
White Perch	420	191	1,088	5	2	25	(1)	(1)	(1)	425	193	1,113
Other Temperate Basses	(1)	(1)	(1)	-	-	-	-	-	-	(1)	(1)	(1)
Toadfishes	(1)	(1)	5	(1)	(1)	4	(1)	(1)	(1)	(1)	(1)	9
Triggerfishes/Filefishes	13	6	10	155	70	97	588	267	284	756	343	391
Tunas And Mackerels												
Atlantic Mackerel	423	192	607	1,274	578	1,502	1,245	565	1,127	2,942	1,335	3,236
King Mackerel**	39	18	18	2,550	1,157	322	4,567	2,072	472	7,156	3,247	812
Little Tunny/Atlantic Bonito**	33	15	5	919	417	149	1,682	763	228	2,634	1,195	382
Pacific Bonito**	(1)	(1)	(1)	5	2	1	(1)	(1)	(1)	5	2	1
Spanish Mackerel	956	434	758	1,967	892	1,391	674	306	391	3,597	1,632	2,540
Other Tunas/Mackerels**	186	84	169	740	336	360	16,667	7,562	830	17,593	7,982	1,359
Wrasses												
California Sheephead	2	1	1	172	78	58	8	4	4	182	83	63
Cunner	52	24	77	7	3	16	2	1	10	61	28	103
Tautog	1,434	651	385	722	328	218	376	171	85	2,532	1,150	688
Other Wrasses	(1)	(1)	2	49	22	33	134	61	62	183	83	97
Other Fishes**	3,387	1,537	4,936	3,087	1,401	1,363	3,380	1,533	460	9,854	4,471	6,759
Grand Total	**71,393**	**32,395**	**75,720**	**54,950**	**24,933**	**39,568**	**72,342**	**32,823**	**20,385**	**198,685**	**90,151**	**135,673**

(1) Number or pounds less than 1,000 or less than 1 metric ton.

(2) Except West Florida where the state territorial seas extend 0 to 10 miles.

NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Barracudas			Bluefish		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	1,225	158	301	30,905	11,567	5,306
1991	1,349	227	755	33,957	12,420	6,831
1992	1,105	173	627	24,775	7,479	4,511
1993	1,323	196	592	20,636	5,917	4,384
1994	1,656	211	695	15,988	6,056	6,349
1995	1,627	246	673	14,897	5,411	5,552
1996	1,956	229	616	12,116	4,426	5,591
1997	1,718	162	437	14,555	5,585	7,609
1998	1,162	150	396	12,774	4,430	5,340
1999	1,192	139	393	8,610	3,856	8,022

Year	Cartilaginous Fishes			Catfishes		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	4,983	640	3,253	2,285	1,774	12,642
1991	2,466	682	4,067	3,770	2,479	16,741
1992	5,074	544	4,113	2,180	1,704	12,862
1993	5,294	646	4,708	2,158	1,764	12,017
1994	4,349	596	5,903	1,886	1,595	14,223
1995	9,953	602	5,449	1,565	1,259	13,496
1996	4,954	557	6,107	1,585	1,008	8,334
1997	4,048	565	6,791	1,886	916	8,573
1998	3,312	523	6,787	1,663	973	7,961
1999	3,108	351	6,181	997	709	7,702

Year	Cods and Hakes			Dolphins		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	9,750	3,255	1,037	12,773	1,840	85
1991	10,561	2,802	951	17,205	2,618	524
1992	2,994	1,178	473	9,788	1,318	166
1993	7,484	1,953	1,477	10,894	1,762	177
1994	5,123	1,636	1,590	12,795	2,215	236
1995	6,019	1,648	1,600	19,565	2,268	337
1996	3,906	877	832	12,508	1,668	241
1997	3,651	1,043	782	23,015	2,283	234
1998	3,551	849	1,049	12,121	1,889	187
1999	2,977	781	974	13,423	2,065	217

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Drums			Flounders		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	23,937	30,261	31,030	9,855	8,311	8,129
1991	40,235	49,310	56,405	13,136	10,954	12,772
1992	35,270	40,647	35,462	10,101	7,303	8,775
1993	33,673	38,143	39,676	13,252	10,525	20,420
1994	38,698	48,715	48,958	13,815	9,890	15,376
1995	42,200	41,412	41,611	11,270	6,666	16,079
1996	39,059	35,128	38,042	14,858	10,526	16,087
1997	44,586	39,757	50,684	16,967	10,286	16,849
1998	41,245	36,520	44,142	16,614	9,207	19,214
1999	43,801	39,517	49,966	12,905	6,500	19,855

Year	Grunts			Herrings		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	2,384	4,503	4,705	903	13,516	7,331
1991	3,176	5,125	10,713	3,082	31,300	2,641
1992	2,979	4,831	6,757	2,034	23,974	4,959
1993	2,347	4,462	7,107	753	28,244	6,499
1994	2,890	5,632	8,256	762	26,411	12,137
1995	3,111	5,534	7,868	976	26,010	4,947
1996	2,449	3,962	6,395	1,096	22,735	8,402
1997	2,596	4,558	6,798	1,913	36,824	3,966
1998	1,903	3,436	5,805	964	26,927	7,316
1999	2,038	3,259	7,210	648	23,278	7,625

Year	Jacks			Mullets		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	4,230	2,044	3,981	2,061	2,283	1,522
1991	7,479	5,185	5,240	5,036	4,883	796
1992	5,935	5,550	6,017	5,185	5,240	331
1993	8,423	5,783	6,659	2,389	3,947	239
1994	6,270	4,151	7,197	3,095	3,893	495
1995	4,878	3,318	5,630	2,115	4,180	594
1996	6,057	3,625	5,091	1,902	2,796	937
1997	8,179	4,954	7,179	2,473	2,857	401
1998	10,218	4,200	7,959	2,673	3,240	516
1999	6,968	3,435	6,775	2,240	5,710	904

See footnotes at end of page.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Porgies			Puffers		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	8,967	14,091	8,076	176	381	830
1991	14,608	23,440	14,999	302	830	2,066
1992	13,390	17,502	12,316	359	743	1,357
1993	11,373	15,738	10,584	167	338	986
1994	10,055	13,659	13,049	97	248	893
1995	10,982	14,696	12,175	132	255	694
1996	9,180	13,475	11,115	115	247	579
1997	8,495	13,113	14,589	153	284	762
1998	7,733	10,777	13,803	63	148	615
1999	8,396	10,519	12,630	59	175	1,117

Year	Sculpins			Sea Basses		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	1	5	118	7,743	6,929	12,428
1991	2	2	53	10,401	9,003	14,985
1992	7	9	45	9,759	6,628	12,587
1993	278	245	858	14,289	10,715	13,853
1994	187	87	289	11,787	7,921	14,503
1995	191	140	453	15,323	10,970	17,394
1996	294	164	386	10,893	7,413	12,838
1997	213	138	468	11,315	7,927	15,895
1998	311	129	319	8,478	3,560	11,888
1999	222	102	228	9,349	3,869	14,627

Year	Searobins			Snappers		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	188	329	4,980	4,712	3,389	3,089
1991	317	486	7,788	7,669	5,485	11,338
1992	205	261	4,507	7,430	4,208	7,447
1993	156	245	7,481	8,213	4,989	7,940
1994	48	125	4,582	7,227	4,083	6,397
1995	22	101	4,710	6,158	3,534	6,591
1996	212	193	5,094	5,150	2,674	6,147
1997	242	238	5,528	7,585	3,504	8,259
1998	106	202	3,796	7,098	3,341	7,361
1999	78	122	5,950	7,342	3,385	7,332

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Temperate Basses			Toadfishes		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	2,915	1,601	3,850	7	32	2,633
1991	4,541	2,494	5,396	7	134	2,867
1992	4,683	1,977	5,538	19	152	1,631
1993	6,783	2,895	7,321	17	39	2,638
1994	7,888	2,827	10,490	28	61	1,720
1995	13,439	2,382	12,303	1	30	1,618
1996	14,538	3,560	14,882	1	14	1,048
1997	17,677	4,314	20,155	(1)	33	1,120
1998	14,080	3,323	18,577	2	10	998
1999	14,835	2,564	15,526	(1)	9	911

Year	Triggerfishes/Filefishes			Tunas And Mackerels		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	2,365	1,084	259	31,457	8,397	3,264
1991	2,428	1,000	427	33,098	10,783	2,949
1992	1,654	796	307	24,513	7,067	3,027
1993	1,547	767	232	31,258	8,603	5,487
1994	1,414	740	179	36,281	12,039	5,507
1995	1,207	671	192	37,424	9,257	5,811
1996	848	468	268	34,412	9,164	6,477
1997	1,086	511	232	41,142	11,500	6,619
1998	775	390	233	30,347	7,207	4,114
1999	757	390	196	33,926	8,331	3,916

Year	Wrasses			California Scorpionfish		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1990	5,424	2,837	3,739	-	-	-
1991	8,696	3,518	4,611	-	-	-
1992	8,238	3,088	3,313	-	-	-
1993	6,536	2,879	3,532	166	148	72
1994	4,148	1,761	2,484	258	242	126
1995	5,129	2,058	3,287	224	212	139
1996	3,547	1,292	1,740	339	342	234
1997	2,596	929	1,820	206	243	132
1998	1,756	572	2,053	185	160	66
1999	2,957	951	3,101	297	280	105

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1990-1999

Year	Croakers			Greenlings		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	583	1,217	1,145	1,814	497	174
1994	446	739	521	1,016	294	109
1995	695	1,132	673	962	252	144
1996	919	1,544	864	1,369	408	285
1997	556	774	712	1,061	299	244
1998	425	610	355	1,407	270	299
1999	689	533	469	1,516	269	248

Year	Pacific Barracuda			Rockfishes		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	1,687	428	822	6,087	4,901	1,447
1994	2,015	526	1,239	4,810	3,797	698
1995	2,490	563	816	4,188	2,918	666
1996	1,011	234	350	4,811	3,740	808
1997	1,699	374	475	3,796	2,986	679
1998	2,057	450	752	5,592	4,134	735
1999	1,988	423	475	6,196	4,943	478

Year	Sea Chubs			Silversides		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	87	129	59	439	1,078	152
1994	106	107	42	138	323	96
1995	224	217	31	317	801	171
1996	78	72	18	296	658	120
1997	66	58	12	169	492	242
1998	87	108	46	152	395	158
1999	92	82	13	109	316	96

Year	Smelts			Surfperches		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	159	1,628	31	756	1,364	608
1994	90	1,208	(1)	442	819	365
1995	122	1,416	(1)	710	1,181	648
1996	474	4,351	4	950	1,464	686
1997	120	1,617	9	640	1,179	755
1998	357	4,825	9	1,006	1,435	488
1999	28	1,221	7	415	701	356

(1) Number or pounds less than 1,000 or less than 1 metric ton.

NOTE: The MRFSS was not conducted on the Pacific Coast from 1990 to 1992.

U.S. RECREATIONAL FINFISH HARVEST (A+B1) AND RELEASED (B2), BY STATE, 1998 and 1999

State	1998		
	Pounds Harvested (thousands)	Number Harvested (thousands)	Number Released (thousands)
Maine	705	666	945
New Hampshire	588	399	511
Massachusetts	9,252	2,753	10,018
Rhode Island	3,567	1,488	2,012
Connecticut	3,424	1,478	3,223
New York	8,458	3,684	5,460
New Jersey	13,632	5,668	15,904
Delaware	2,463	1,628	3,988
Maryland	8,311	6,425	14,542
Virginia	13,993	12,041	15,295
North Carolina	15,370	7,248	10,374
South Carolina	3,356	2,516	4,418
Georgia	1,049	864	745
Florida	57,742	59,623	67,747
Alabama	5,093	3,628	2,336
Mississippi	2,623	1,791	2,001
Louisiana	18,081	9,595	13,883
Washington	5,121	5,218	1,844
Oregon	3,775	1,713	528
California	23,021	11,947	7,203
Grand Total	**199,624**	**140,373**	**182,977**

State	1999		
	Pounds Harvested (thousands)	Number Harvested (thousands)	Number Released (thousands)
Maine	802	944	917
New Hampshire	833	606	526
Massachusetts	7,626	3,731	7,218
Rhode Island	3,817	2,191	2,675
Connecticut	2,575	1,366	3,191
New York	9,733	4,028	9,541
New Jersey	14,181	5,627	22,082
Delaware	2,021	1,486	3,592
Maryland	5,396	4,100	13,079
Virginia	11,507	9,518	12,851
North Carolina	18,034	6,392	10,256
South Carolina	2,628	2,190	2,722
Georgia	1,772	1,792	485
Florida	60,483	59,837	75,436
Alabama	6,568	3,678	4,631
Mississippi	3,027	3,090	1,656
Louisiana	20,977	12,444	14,477
Washington	3,088	2,480	1,776
Oregon	2,927	1,154	265
California	20,682	9,002	5,768
Grand Total	**198,677**	**135,656**	**193,144**

U.S. RECREATIONAL NUMBERS OF ANGLERS AND TRIPS BY STATES, 1998 AND 1999

State	1998			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	Numbers in thousands			
Maine	115	103	16	676
New Hampshire	58	57	8	277
Massachusetts	228	342	65	3,451
Rhode Island	187	96	-	1,100
Connecticut	73	290	-	1,292
New York	42	427	6	3,431
New Jersey	357	400	29	4,308
Delaware	188	103	-	920
Maryland	307	423	29	2,839
Virginia	291	302	38	2,956
North Carolina	635	312	143	4,461
South Carolina	416	137	85	1,714
Georgia	19	69	28	572
Florida	2,439	2,344	-	22,324
Alabama	100	101	56	968
Mississippi	68	82	25	828
Louisiana	106	434	41	2,673
Washington	42	326	21	1,463
Oregon	51	168	13	649
California	198	1,099	65	4,905
Grand Total	**5,920**	**7,615**	**668**	**61,807**

State	1999			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	Numbers in thousands			
Maine	95	112	10	629
New Hampshire	60	55	8	285
Massachusetts	174	240	57	2,983
Rhode Island	214	108	-	1,262
Connecticut	55	243	-	1,319
New York	28	337	11	2,903
New Jersey	303	493	30	4,825
Delaware	168	69	-	800
Maryland	349	383	41	2,883
Virginia	187	309	66	2,694
North Carolina	805	324	164	4,555
South Carolina	221	132	61	1,213
Georgia	20	59	32	473
Florida	2,282	2,154	-	19,491
Alabama	143	131	92	1,170
Mississippi	75	76	26	806
Louisiana	91	409	33	2,621
Washington	31	329	23	1,256
Oregon	55	184	14	554
California	158	956	53	4,150
Grand Total	**5,514**	**7,103**	**721**	**56,872**

NOTE: All counties in RI, CT, DE, and FL are considered coastal.

NOTE: Small differences in 1998 values from values appearing in FUS 1998 are due to post-publication data corrections.

WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1989-98

Year	World aquaculture			World commercial catch			Grand Total
	Inland	Marine	Total	Inland	Marine	Total	
	Metric tons Live weight			Metric tons Live weight			
1989	7,236,775	5,091,399	12,328,174	6,232,159	83,058,006	89,290,165	101,618,339
1990	7,698,867	5,385,400	13,084,267	6,436,889	79,073,661	85,510,550	98,594,817
1991	7,902,884	5,838,041	13,740,925	6,199,956	78,279,764	84,479,720	98,220,645
1992	8,929,908	6,544,938	15,474,846	6,133,940	79,168,140	85,302,080	100,776,926
1993	10,132,179	7,764,215	17,896,394	6,524,486	79,983,088	86,507,574	104,403,968
1994	11,696,144	9,123,582	20,819,726	6,705,292	84,731,353	91,436,645	112,256,371
1995	13,628,935	10,923,134	24,552,069	7,248,974	84,327,829	91,576,803	116,128,872
1996	15,408,482	11,411,591	26,820,073	7,433,018	86,041,137	93,474,155	120,294,228
1997	17,029,584	11,794,654	28,824,238	7,532,353	86,086,701	93,619,054	122,443,292
1998	18,118,961	12,744,106	30,863,067	8,003,441	78,295,912	86,299,353	117,162,420

Note:--Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES OF FISH, CRUSTACEANS, AND MOLLUSKS, 1997-98

Species group	1997			1998		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	Metric tons- Live-weight			Metric tons- Live-weight		
Herrings, sardines, anchovies	-	21,596,852	21,596,852	-	16,539,574	16,539,574
Carps, barbels, cyprinids	13,230,197	616,556	13,846,753	14,142,298	603,331	14,745,629
Cods, hakes, haddocks	307	10,364,350	10,364,657	148	10,332,547	10,332,695
Jacks, mullets, sauries	183,983	10,529,223	10,713,206	204,498	8,354,345	8,558,843
Redfish, basses, congers	178,901	7,300,692	7,479,593	201,380	6,984,024	7,185,404
Tunas, bonitos, billfishes	2,089	5,122,071	5,124,160	5,140	5,545,977	5,551,117
Mackerel, snoeks, cutlassfishes	-	5,284,903	5,284,903	-	4,985,495	4,985,495
Salmons, trouts, smelts	1,225,112	921,686	2,146,798	1,291,444	889,059	2,180,503
Tilapias	938,497	562,036	1,500,533	972,773	598,453	1,571,226
Flatfish	-	1,024,984	1,024,984	33,445	925,638	959,083
Shads	-	734,453	734,453	-	808,827	808,827
Sharks, rays, chimaeras	-	808,341	808,341	-	800,129	800,129
River eels	232,908	14,677	247,585	222,547	12,785	235,332
Sturgeons, paddlefish	2,025	4,391	6,416	2,034	3,714	5,748
Other fishes	2,754,268	14,833,962	17,588,230	2,969,658	15,291,012	18,260,670
Shrimp	1,000,565	2,600,256	3,600,821	1,113,887	2,713,450	3,827,337
Crabs	70,948	1,203,428	1,274,376	77,411	1,284,838	1,362,249
Lobsters	67	249,569	249,636	71	237,875	237,946
Krill	-	82,508	82,508	-	81,181	81,181
Other crustaceans	301,307	1,771,603	2,072,910	372,678	2,046,358	2,419,036
Oysters	3,082,260	184,737	3,266,997	3,537,830	157,409	3,695,239
Clams, cockles, arkshells	1,941,872	807,171	2,749,043	2.226,025	821,273	3,047,298
Squids, cuttlefishes, octopus	4	3,387,678	3,387,682	33	2,604,437	2,604,470
Mussels	1,136,050	240,090	1,376,140	1,377,830	248,293	1,626,123
Scallops	1,269,063	465,669	1,734,732	874,225	515,660	1,389,885
Abalones, winkles, conchs	3,893	116,634	120,527	3,749	90,070	93,819
Other mollusks	1,148,154	2,130,124	3,278,278	1,123,172	2,177,898	3,301,070
Sea urchins, other echinoderms	74	116,477	116,551	30	106,447	106,477
Miscellaneous	121,694	543,933	665,627	110,761	539,254	650,015
Total	**28,824,238**	**93,619,054**	**122,443,292**	**30,863,067**	**86,299,353**	**117,162,420**

Note:--Data for 1997 are revised. Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY COUNTRY OF FISH, CRUSTACEANS, AND MOLLUSKS, 1997-98

Country	1997			1998		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	----------Metric tons----------			----------Metric tons----------		
		Live-weight			Live-weight	
China	19,315,623	15,722,344	35,037,967	20,795,367	17,229,957	38,025,324
Japan	806,534	5,916,155	6,722,689	766,812	5,259,089	6,025,901
India	1,862,250	3,517,084	5,379,334	2,029,619	3,214,765	5,244,384
United States	438,331	4,983,468	5,421,799	445,123	4,708,980	5,154,103
Russian Federation	53,171	4,661,853	4,715,024	63,195	4,454,759	4,517,954
Indonesia	662,547	3,791,025	4,453,572	696,880	3,698,850	4,395,730
Peru	7,381	7,869,871	7,877,252	7,732	4,338,437	4,346,169
Chile	272,346	5,811,567	6,083,913	293,044	3,265,306	3,558,350
Thailand	552,356	2,877,622	3,429,978	569,577	2,900,320	3,469,897
Norway	367,298	2,856,017	3,223,315	408,862	2,850,428	3,259,290
South Korea	392,387	2,204,047	2,596,434	327,462	2,026,934	2,354,396
Philippines	330,441	1,805,806	2,136,247	311,933	1,827,971	2,139,904
Iceland	3,663	2,205,944	2,209,607	3,868	1,681,951	1,685,819
Viet Nam	494,000	1,078,668	1,572,668	521,870	1,130,660	1,652,530
Denmark	38,908	1,826,852	1,865,760	42,368	1,557,335	1,599,703
Bangladesh	512,738	829,426	1,342,164	583,877	839,141	1,423,018
Spain	239,136	1,143,122	1,382,258	313,518	1,106,557	1,420,075
Taiwan	257,530	1,038,048	1,295,578	240,435	1,076,288	1,316,723
Mexico	39,500	1,489,020	1,528,520	40,989	1,181,402	1,222,391
Malaysia	103,360	1,172,922	1,276,282	129,009	1,153,719	1,282,728
All others	2,074,738	20,818,193	22,892,931	2,271,527	20,796,504	23,068,031
Total	**28,824,238**	**93,619,054**	**122,443,292**	**30,863,067**	**86,299,353**	**117,162,420**

Note:--For the United States the weight of clams, oyster, scallop, and other mollusk includes the shell weight. This weight is not included in U.S. landings shown elsewhere. Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY AREA OF FISH, CRUSTACEANS, AND MOLLUSKS, 1997-98

Country	1997			1998		
	Aquaculture	Catch	Total	Aquaculture	Catch	Total
	----------Metric tons----------			----------Metric tons----------		
Marine Areas		Live-weight			Live-weight	
Atlantic Ocean:						
Northeast	1,091,434	11,726,845	12,818,279	1,240,192	10,935,442	12,175,634
Northwest	71,091	2,047,525	2,118,616	69,621	1,960,325	2,029,946
Eastern central	-	3,550,023	3,550,023	-	3,573,635	3,573,635
Western central	72,179	1,800,648	1,872,827	64,729	1,778,297	1,843,026
Southeast	3,070	1,116,420	1,119,490	3,276	1,264,153	1,267,429
Southwest	10,180	2,729,593	2,739,773	11,030	2,349,737	2,360,767
Mediterranean and Black Sea	264,354	1,436,622	1,700,976	326,847	1,405,860	1,732,707
Indian Ocean:						
Eastern	356,226	3,982,936	4,339,162	401,435	3,984,247	4,385,682
Western	37,311	4,166,674	4,203,985	55,479	3,864,908	3,920,387
Pacific Ocean:						
Northeast	70,986	2,839,939	2,910,925	84,305	2,778,370	2,862,675
Northwest	8,229,590	24,606,690	32,836,280	8,752,088	24,772,561	33,524,649
Eastern central	45,278	1,647,981	1,693,259	52,749	1,361,434	1,414,183
Western central	494,656	9,114,173	9,608,829	523,332	9,279,250	9,802,582
Southeast	409,358	14,407,215	14,816,573	444,738	8,040,608	8,485,346
Southwest	89,817	820,212	910,029	106,038	854,809	960,847
Antarctic	-	93,205	93,205	-	92,276	92,276
Inland Areas						
Africa	98,355	1,969,434	2,067,789	159,471	1,967,411	2,126,882
Asia	16,524,922	4,609,331	21,134,253	17,603,550	5,015,999	22,619,549
Europe	429,807	406,403	836,210	430,507	454,993	885,500
North America	390,506	204,735	595,241	392,340	212,708	605,048
South America	131,762	321,662	453,424	137,854	330,251	468,105
Oceania	3,356	20,788	24,144	3,486	22,079	25,565
Total	**28,824,238**	**93,619,054**	**122,443,292**	**30,863,067**	**86,299,353**	**117,162,420**

Note:--Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO).

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1994-98

Country	1994	1995	1996	1997	1998
	Thousand U.S. dollars				
IMPORTS:					
Japan	16,140,465	17,853,481	17,023,945	15,539,507	12,826,543
United States	7,043,431	7,141,428	7,080,411	8,138,840	8,578,766
Spain	2,638,737	3,105,684	3,134,893	3,069,601	3,545,751
France	2,796,719	3,221,298	3,194,133	3,062,051	3,505,333
Italy	2,257,462	2,281,316	2,590,985	2,571,868	2,808,587
Germany	2,316,449	2,478,817	2,542,957	2,362,914	2,623,741
United Kingdom	1,880,350	1,910,091	2,065,025	2,141,619	2,384,028
Denmark	1,415,239	1,573,732	1,618,669	1,521,062	1,704,234
Hong Kong	1,647,106	1,831,511	1,928,143	2,096,894	1,611,747
Netherlands	1,017,635	1,191,857	1,141,647	1,107,443	1,230,199
Other Countries	11,968,712	13,529,425	14,907,441	14,964,472	14,158,170
Total	**51,122,305**	**56,118,640**	**57,228,249**	**56,576,271**	**54,977,099**
EXPORTS:					
Thailand	4,190,036	4,449,457	4,117,865	4,329,541	4,031,279
Norway	2,718,132	3,122,662	3,415,696	3,399,229	3,661,174
Denmark	2,359,034	2,459,629	2,698,976	2,648,911	2,897,707
China	2,320,125	2,835,021	2,856,986	2,937,281	2,656,117
United States	3,229,585	3,383,589	3,147,858	2,850,311	2,400,338
Canada	2,182,078	2,314,413	2,291,261	2,270,725	2,265,236
Indonesia	1,583,416	1,666,752	1,678,222	1,620,628	1,628,494
Chile	1,303,974	1,704,260	1,697,211	1,781,805	1,596,800
Taiwan	1,804,050	1,809,166	1,762,136	1,779,800	1,579,836
United Kingdom	1,180,158	1,195,477	1,307,859	1,264,447	1,549,305
Other Countries	24,416,772	26,778,308	27,853,752	28,402,497	27,005,955
Total	**47,287,360**	**51,718,734**	**52,827,822**	**53,285,175**	**51,272,241**

Note:-- Data for 1994-1997 are revised. Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value, but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.
Source:—Food and Agriculture Organization of the United Nations (FAO).

DISPOSITION OF WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1994-98

Item	1994	1995	1996	1997	1998
	Percent of Total				
Marketed fresh	24.1	28.9	31.2	34.5	36.1
Frozen	23.5	23.2	22.6	21.9	22.9
Canned	11.6	11.2	10.6	10.6	11.1
Cured	11.0	10.1	9.7	9.1	9.6
Reduced to meal and oil (1)	28.3	25.0	24.2	22.3	18.8
Miscellaneous purposes	1.5	1.6	1.7	1.6	1.5
Total	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

Note:-- Data for 1994-1997 are revised. Data for marine mammals and aquatic plants are excluded. (1) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels. Source:—Food and Agriculture Organization of the United Nations (FAO).

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1999 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 369.3 million pounds–53.2 million pounds less than the 422.4 million pounds in 1998. These fillets and steaks were valued at $834.5 million. Alaska pollock fillets and blocks led all species with 143.8 million pounds--39 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 219.0 million pounds.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 268.3 million pounds valued at $332.5 million compared with the 1998 production of 253.5 million pounds valued at $274.8 million.

The total production of fish sticks amounted to 65.0 million pounds valued at $63.4 million. The total production of fish portions amounted to 203.3 million pounds valued at $269.1 million.

BREADED SHRIMP. The production of breaded shrimp in 1999 was 119.1 million pounds valued at $351.9 million, compared with the 1998 production of 109.5 million pounds valued at $333.3 million.

FROZEN FISHERY TRADE. In 1999, stocks of frozen fishery products in cold storage were at a low of 317.4 million pounds on February 28 and a high of 388.2 million pounds on December 31. Cold storage holdings of shrimp products were at a high of 54.2 million pounds on December 31 and a low of 42.0 million pounds on May 31. Holdings of saltwater fillets and steaks reached a high of 76.8 million pounds on November 30 and were at a low of 58.9 million pounds on February 28. Holdings of blocks and slabs were at a high of 62.3 million pounds on January 31 and a low of 37.0 million pounds on March 31. Surimi reached a high of 23.3 million pounds on September 30 and was at a low of 13.1 million pounds on December 31. Analog Products reached a high of 5.8 million pounds on May 31 and a low of 4.1 million pounds on July 31.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.5 billion pounds valued at $1.8 billion--a decrease of 34.1 million pounds, but an increase of $172.5 million compared with the 1998 pack. The 1999 pack included 986.6 million pounds valued at $1.4 billion for human consumption and 544.3 million pounds valued at $349.8 million for bait and animal food.

CANNED SALMON. The 1999 U.S. pack of salmon was 162.5 million pounds valued at $273.5 million, compared with 162.1 million pounds valued at $252.8 million packed in 1998.

CANNED SARDINES. The pack of Maine sardines (small herring) was 11.8 million pounds valued at $19.5 million, a decrease of 4.1 million pounds and $9.5 million compared with 1998. There were 3.7 million pounds of herring valued at $6.6 million packed in 1999 — a decrease of 2.2 million pounds and $4.6 million than the 1998 pack.

CANNED TUNA. The U.S. pack of tuna was 680.9 million pounds valued at $983.0 million--an increase of 53.8 million pounds in quantity and $64.3 million in value compared with the 1998 pack. The pack of albacore tuna was 196.8 million pounds--11.5 million pounds more than the 185.3 million pounds produced in 1998. Albacore tuna comprised 30 percent of the tuna pack in 1999. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 484.1 million pounds--42.4 million pounds more than the 441.7 million pounds packed in 1998.

CANNED CLAMS. The 1999 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 113.4 million pounds valued at $104.9 million--a decrease of 11.5 million pounds and $9.7 million less in value than in 1998. The pack of whole and minced clams was 36.6 million pounds--7.0 million pounds less than 1998 accounting for 32 percent of the total clam pack. Clam chowder and clam juice was 67.1 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food was 544.3 million pounds valued at $349.8 million--a decrease of 68.0 million pounds compared with 1998.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was $268.2 million--an increase of $34.8 million compared with the 1998 value of $233.4 million.

FISH MEAL. The domestic production of fish and shellfish meal was 686.2 million pounds valued at

$147.0 million--an increase of 72.8 million pounds, and $30.0 million compared with 1998. Fish meal production was 671.8 million pounds valued at $146.1 million – an increase of 77.0 million pounds and $30.3 million from the 1998 production. Shellfish meal production was 14.5 million pounds--a decrease of 4.2 million pounds from the 1998 level.

FISH OILS. The domestic production of fish oils was 286.2 million pounds valued at $41.9 million--an increase of 63.5 million pounds but a decrease of $13.7 million in value compared with 1998 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at $79.3 million, compared with $60.8 million in 1998--an increase of $18.5 million.

VALUE OF PROCESSED FISHERY PRODUCTS, 1998 AND 1999
(Processed from domestic catch and imported products)

Item	1998 (1)		1999	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen	5,224,437	71	5,051,343	69
Canned	1,425,564	19	1,527,215	21
Cured	132,257	2	151,802	2
Total edible	**6,782,258**	**92**	**6,730,360**	**92**
Industrial:				
Bait and animal food (canned)	349,765	5	339,548	5
Meal and oil	172,574	2	188,854	3
Other	60,800	1	79,325	1
Total industrial	**583,139**	**8**	**607,727**	**8**
Grand total	**7,365,397**	**100**	**7,338,087**	**100**

(1) Revised. May not add due to rounding. Value is based on selling price at the plant.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1990-99

Year	Fish sticks			Fish portions			Breaded shrimp		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
1990	65,209	29,579	74,866	242,776	110,122	352,589	110,760	50,240	353,265
1991	63,286	28,706	77,877	204,697	92,850	313,400	116,335	52,769	335,880
1992	58,295	26,442	56,020	194,307	88,137	296,214	122,266	55,459	350,497
1993	67,959	30,826	67,975	206,165	93,516	313,195	111,489	50,571	316,722
1994	58,789	26,667	51,429	196,289	89,036	268,353	113,461	51,466	304,931
1995	74,066	33,596	73,478	251,217	113,951	356,518	100,522	45,596	299,355
1996	65,244	29,594	55,802	213,962	97,053	306,501	108,486	49,209	341,770
1997	69,167	31,374	64,298	195,554	88,703	285,348	117,471	53,284	334,939
1998	68,778	31,197	63,473	184,681	83,771	211,356	109,481	49,660	333,257
1999	65,019	29,492	63,396	203,279	92,207	269,125	119,149	54,046	351,891

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1998 AND 1999

Species	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Fillets:						
Amberjack	397	180	1,445	157	71	673
Anglerfish	5,185	2,352	14,416	2,642	1,198	8,764
Bluefish	151	68	335	136	62	354
Cod	66,644	30,230	161,047	61,401	27,851	108,646
Cusk	98	44	331	115	52	383
Dolphin	4,230	1,919	19,107	3,505	1,590	15,785
Drum	133	60	478	58	26	219
Flounders	23,558	10,686	69,548	23,765	10,780	68,334
Groupers	2,980	1,352	16,038	1,766	801	11,663
Haddock	5,721	2,595	22,028	4,818	2,185	20,455
Hake	15,436	7,002	9,187	4,977	2,258	6,991
Halibut	4,868	2,208	21,922	4,032	1,829	21,308
Lingcod	480	218	1,759	471	214	1,747
Marlins	367	166	890	612	278	1,726
Ocean perch:						
Atlantic	616	279	1,918	738	335	2,445
Pacific	1,781	808	3,559	1,456	660	3,088
Pollock:						
Atlantic	3,596	1,631	7,148	1,644	746	3,725
Alaska	161,399	73,210	189,745	143,821	65,237	168,507
Rockfishes	15,942	7,231	32,794	12,468	5,655	24,592
Sablefish	426	193	1,517	310	141	866
Salmon	28,202	12,792	85,758	28,477	12,917	81,040
Sea bass	658	298	3,766	586	266	4,145
Sea trout	222	101	856	215	98	872
Shark	1,823	827	5,120	1,085	492	2,486
Snapper	2,522	1,144	16,206	1,510	685	9,632
Swordfish	9,777	4,435	51,888	9,525	4,321	48,062
Tilapia	1,519	689	4,329	629	285	1,791
Tuna	11,621	5,271	75,762	11,992	5,440	79,932
Wahoo	257	117	1,332	269	122	1,354
Whitefish	980	445	2,549	921	418	2,486
Wolffish	86	39	239	82	37	202
Unclassified	19,474	8,833	63,662	19,066	8,648	61,695
Total	**391,149**	**177,424**	**886,679**	**343,249**	**155,697**	**763,968**
Steaks:						
Halibut	6,471	2,935	24,019	6,744	3,059	27,199
Salmon	1,197	543	2,828	1,244	564	3,062
Shark	27	12	78	56	25	168
Swordfish	4,058	1,841	16,468	3,192	1,448	13,233
Tuna	4,615	2,093	15,917	4,993	2,265	17,307
Unclassified	14,901	6,759	14,939	9,782	4,437	9,594
Total	**31,269**	**14,184**	**74,249**	**26,011**	**11,799**	**70,563**
Grand total	**422,418**	**191,608**	**960,928**	**369,260**	**167,495**	**834,531**

(1) Revised.

Note:--Some fillet products were further processed into frozen blocks.

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1998 AND 1999

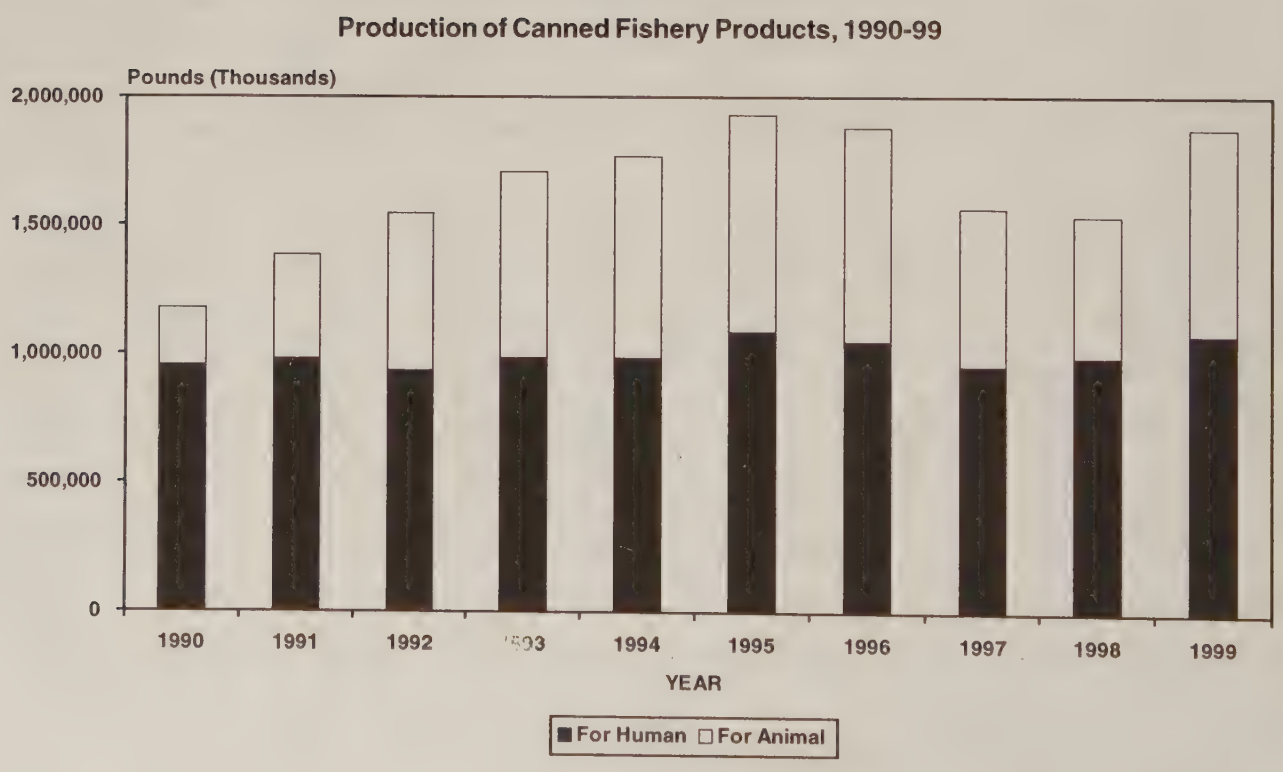
Species	Pounds per case	1998			1999		
		Standard cases	Thousand pound	Thousand dollars	Standard cases	Thousand pound	Thousand dollars
For human consumption:							
Fish:							
Herring	23.4	158,291	3,704	6,612	158,846	3,717	6,709
Salmon:							
Chinook	44.25	362	16	103	2,644	117	290
Chum	44.25	212,271	9,393	8,711	171,322	7,581	6,079
Pink	44.25	2,672,136	118,242	153,008	3,904,068	172,755	195,269
Coho	44.25	36,000	1,593	3,288	42,305	1,872	3,834
Sockeye	44.25	667,887	29,554	108,420	1,171,299	51,830	187,600
Total salmon		**3,588,655**	**158,798**	**273,530**	**5,291,638**	**234,155**	**393,072**
Specialties	48	13,229	635	4,770	13,188	633	6,526
Sardines, Maine	23.4	506,068	11,842	19,488	513,547	12,017	20,107
Tuna: (2)							
Albacore:							
Solid	18	9,065,944	163,187	330,348	10,061,333	181,104	349,891
Chunk	18	1,867,000	33,606	60,604	1,784,389	32,119	61,731
Total albacore		**10,932,944**	**196,793**	**390,952**	**11,845,722**	**213,223**	**411,622**
Lightmeat:							
Solid	18	502,833	9,051	13,962	624,389	11,239	16,536
Chunk	18	26,389,778	475,016	578,108	24,700,944	444,617	517,623
Total lightmeat		**26,892,611**	**484,067**	**592,070**	**25,325,333**	**455,856**	**534,159**
Total tuna		**37,825,556**	**680,860**	**983,022**	**37,171,056**	**669,079**	**945,781**
Specialties	48	542	26	179	563	27	173
Other	48	305,813	14,679	17,302	322,833	15,496	18,269
Total fish	--	**42,398,153**	**870,544**	**1,304,903**	**43,471,670**	**935,124**	**1,390,637**
Shellfish:							
Clam and clam products: (3)							
Whole and minced	15	2,442,533	36,638	54,205	2,826,933	42,404	64,182
Chowder and juice	30	2,235,733	67,072	41,420	2,447,600	73,428	39,512
Specialties	48	201,250	9,660	9,275	168,167	8,072	6,820
Total clams	--	**4,879,517**	**113,370**	**104,900**	**5,442,700**	**123,904**	**110,514**
Crabs, natural	20	3,436	67	442	39,026	761	5,139
Lobster meat and specialties	48	9,188	441	525	9,729	467	525
Oyster, specialties	48	667	32	81	1,042	50	110
Shrimp, natural (4)	6.75	333,778	2,253	10,884	289,630	1,955	9,639
Other	48	41,375	1,986	3,829	302,313	14,511	10,651
Total shellfish	--	**5,267,960**	**118,149**	**120,661**	**6,084,439**	**141,648**	**136,578**
Total for human consumption	--	**47,666,113**	**988,693**	**1,425,564**	**49,556,109**	**1,076,772**	**1,527,215**
For bait and animal food	48	11,340,167	544,328	349,765	16,599,354	796,769	339,548
Grand total	--	**59,006,279**	**1,533,021**	**1,775,329**	**66,155,463**	**1,873,541**	**1,866,763**

(1) Revised.
(2) Flakes included with chunk.
(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.
(4) Drained weight.

Processed Fishery Products

PRODUCTION OF CANNED FISHERY PRODUCTS, 1990-99

Year	For human consumption			For animal food and bait			Total		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
1990	956,962	434,075	1,414,846	221,320	100,390	146,947	1,178,282	534,465	1,561,793
1991	981,275	445,103	1,439,362	404,440	183,453	204,917	1,385,715	628,556	1,644,279
1992	936,117	424,620	1,330,173	607,678	275,641	247,261	1,543,795	700,261	1,577,434
1993	983,225	445,988	1,375,377	725,822	329,231	312,597	1,709,047	775,219	1,687,974
1994	985,675	447,099	1,470,234	782,272	354,836	325,264	1,767,947	801,935	1,795,498
1995	1,084,866	492,092	1,544,208	842,351	382,088	342,842	1,927,217	874,180	1,887,050
1996	1,052,909	477,596	1,428,937	824,094	373,807	370,945	1,877,003	851,403	1,799,882
1997	952,755	432,167	1,361,437	612,320	277,747	231,756	1,565,075	709,913	1,593,193
1998	988,693	448,468	1,425,564	544,328	246,906	349,765	1,533,021	695,374	1,775,329
1999	1,076,772	488,421	1,527,215	796,769	361,412	339,548	1,873,541	849,833	1,866,763



Processed Fishery Products

PRODUCTION OF MEAL AND OIL, 1998 AND 1999

Product	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Dried scrap and meal:						
Fish	594,764	269,783	115,792	671,794	304,724	146,140
Shellfish	18,670	8,469	1,171	14,456	6,557	830
Total, scrap and meal	**613,434**	**278,252**	**116,963**	**686,250**	**311,281**	**146,970**
Body oil, total	**222,697**	**101,015**	**55,611**	**286,182**	**129,811**	**41,884**

Note:--To convert pounds of oil to gallons divide by 7.75.
The above data includes products in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1990-99

Year	Scrap and meal		Marine animal oil		Meal, and oil	Other industrial products	Grand total
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand dollars		
1990	577,498	261,951	281,949	127,891	163,796	42,759	206,555
1991	612,716	277,926	267,345	121,267	170,495	37,707	208,202
1992	644,512	292,349	184,725	83,791	157,693	45,310	203,003
1993	750,744	340,535	293,452	133,109	182,170	43,689	225,859
1994	807,833	366,431	291,882	132,397	186,222	61,992	248,214
1995	667,240	302,658	241,941	109,744	172,279	74,264	246,543
1996	643,124	291,719	248,399	112,673	187,968	85,583	273,551
1997	724,668	328,707	283,379	128,540	229,222	118,128	347,350
1998	613,434	278,252	222,697	101,015	172,574	60,800	233,374
1999	686,250	311,281	286,182	129,811	188,854	79,325	268,179

Note:--Does not include the value of imported items that may be further processed.

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999 - Continued

Species	January	February	March	April	May	June
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	6,086	5,253	5,368	6,056	5,383	5,169
Flounder and sole	2,890	2,242	1,374	952	740	587
Haddock	709	762	1,015	750	433	398
Ocean perch	874	833	705	726	667	553
Pollock:						
Alaska (walleye)	26,368	18,417	18,535	24,214	25,264	27,691
Atlantic or other	8,541	4,490	3,596	12,492	14,584	16,929
Whiting:						
Silver (Atlantic) hake	661	1,043	1,009	1,368	760	1,534
Pacific hake	129	7	8	5	25	320
Minced	13,948	5,704	3,585	5,905	4,474	3,769
Unclassified (1).	2,107	2,519	1,767	1,764	1,460	1,390
Total, blocks and slabs	**62,313**	**41,270**	**36,962**	**54,232**	**53,790**	**58,340**
Fillets and steaks:						
Cod	13,694	11,891	15,698	16,532	18,097	18,624
Flounder and sole	6,275	5,263	4,663	4,167	3,658	4,435
Haddock	2,592	3,133	1,562	2,161	2,948	2,018
Halibut	1,386	1,186	998	1,043	996	1,075
Ocean perch	4,045	3,993	3,800	4,170	3,635	3,788
Pollock:						
Alaska (walleye)	10,435	11,781	18,215	16,503	15,968	16,261
Atlantic or other	3,423	3,115	2,621	2,474	2,402	2,461
Rockfish	242	181	201	120	194	191
Salmon	2,253	2,184	2,455	2,275	2,305	2,063
Whiting:						
Silver (Atlantic) hake	3,053	3,004	3,757	3,195	3,166	3,625
Pacific hake	4,193	2,420	1,682	1,154	1,006	1,999
Unclassified	11,380	10,744	11,745	15,447	10,593	10,923
Total, fillets and steaks	**62,971**	**58,895**	**67,397**	**69,241**	**64,968**	**67,463**
Round, dressed, etc.:						
Halibut (exc. California)	4,159	3,170	2,682	2,846	3,374	4,162
Sablefish	382	211	104	332	404	613
Salmon:						
Chinook or king	1,545	1,188	885	638	534	599
Silver or coho	3,424	2,688	2,059	1,198	880	548
Chum or fall	29,076	23,392	16,951	12,965	8,621	5,436
Pink	7,260	6,089	3,719	2,665	2,036	1,608
Sockeye	687	556	391	313	235	382
Unclassified	2,553	2,439	2,560	2,410	2,528	2,091
Total, salmon	**44,545**	**36,352**	**26,565**	**20,189**	**14,834**	**10,664**
Whiting:						
Silver (Atlantic) hake	338	8	148	151	256	318
Pacific hake	17	1,483	464	853	298	888
Unclassified (exc. bait)	29,961	29,093	37,620	29,196	28,431	28,043
Total, round, dressed, etc.	**79,402**	**70,317**	**67,583**	**53,567**	**47,597**	**44,688**

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999

Species	July	August	September	October	November	December
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	6,143	5,490	5,004	4,723	4,110	4,817
Flounder and sole	475	487	655	744	705	763
Haddock	356	339	466	401	329	248
Ocean perch	600	769	466	573	405	313
Pollock:						
Alaska (walleye)	24,422	22,439	22,156	21,331	15,473	12,264
Atlantic or other	16,795	13,162	9,695	9,558	9,757	12,390
Whiting:						
Silver (Atlantic) hake	710	611	282	387	321	226
Pacific hake	65	55	54	195	265	238
Minced	5,739	5,408	5,225	4,240	8,188	9,289
Unclassified (1)	2,431	2,003	2,596	2,308	2,601	2,696
Total, blocks and slabs	**57,736**	**50,763**	**46,599**	**44,460**	**42,154**	**43,244**
Fillets and steaks:						
Cod	19,646	19,118	17,982	18,161	17,556	18,673
Flounder and sole	4,788	5,002	4,543	4,655	4,702	3,956
Haddock	2,518	2038	1842	1677	1694	1917
Halibut	1,244	1119	1147	1031	1092	943
Ocean perch	3,032	1899	2546	2348	2163	2178
Pollock:						
Alaska (walleye)	13,830	14,183	16,534	20,670	24,016	21,462
Atlantic or other	2,304	1,958	1,945	2,270	1,949	3,060
Rockfish	182	330	388	447	748	785
Salmon	2,326	3,413	3,619	3,911	3,507	3,579
Whiting:						
Silver (Atl) hake	3,462	3,610	3,629	3,224	3,770	3,752
Pacific hake	4,235	6,973	7,661	6,426	5,882	6,130
Unclassified	9,840	10,849	11,342	9,782	9,811	10,217
Total, fillets and steaks	**67,407**	**70,492**	**73,178**	**74,602**	**76,890**	**76,652**
Round, dressed, etc.:						
Halibut (exc. California)	5,104	6,182	7,835	8,075	7,767	6,728
Sablefish	669	965	1,523	1,177	703	352
Salmon:						
Chinook or king	1,289	1,290	1,654	1,557	1,408	899
Silver or coho	1,503	3,414	4,793	4,783	3,703	2,727
Chum or fall	23,222	44,500	44,080	38,030	31,995	23,757
Pink	1,742	5,851	9,214	9,256	8,287	7,012
Sockeye	2,327	4,630	4,739	4,497	3,929	2,837
Unclassified	2,521	5,782	3,159	3,166	3,061	2,558
Total, salmon	**32,604**	**65,467**	**67,639**	**61,289**	**52,383**	**39,790**
Whiting:						
Silver (Atl) hake	346	291	187	117	122	217
Pacific hake	1,955	2,988	816	3,389	1,205	1,237
Unclassified (exc. bait)	28,169	26,093	26,334	23,927	26,933	30,219
Total, round, dressed, etc.	**68,847**	**101,986**	**104,334**	**97,974**	**89,113**	**78,543**

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999 - Continued

Species	January	February	March	April	May	June
Fish	---------- Thousand pounds ----------					
Fish sticks and portions (2):	28,604	20,977	17,887	19,753	28,177	26,974
Analog products	4,595	4,672	5,106	5,770	5,781	4,759
Surimi: Pollock	19,092	18,535	16,111	16,271	12,459	15,478
Other	1,774	1,909	2,159	1,292	2,105	5,608
Total, saltwater	**258,751**	**216,575**	**213,205**	**220,126**	**214,877**	**223,312**
Freshwater						
Fillets and steaks:	166	164	195	212	220	185
Catfish	12,403	10,832	9,654	8,815	8,147	8,424
Rainbow trout	728	620	571	541	463	366
Unclassified (exc bait)	165	95	184	85	71	80
Total, freshwater	**13,462**	**11,711**	**10,604**	**9,653**	**8,901**	**9,055**
Bait & animal food	5,759	8,368	6,654	7,535	8,107	6,715
Shellfish						
Clams and clam meats	3,936	1,908	2,091	2,054	2,107	2,160
Crabs:						
Dungeness	6,948	952	879	852	706	892
King:						
Meat	175	163	159	346	134	96
Sections	8,080	7,300	6,159	6,175	5,867	5,042
Snow:						
Meat	1,120	1,291	1,280	976	1,135	1,418
Sections	3,929	4,669	12,754	18,582	19,437	17,741
Unclassified	3,132	3,228	2,702	5,086	4,984	5,025
Total, crab	**23,384**	**17,603**	**23,933**	**32,017**	**32,263**	**30,214**
Lobsters:						
Spiny (tails)	3,274	3,274	3,306	965	1,199	1,257
Unclassified (whole & meat)	1,172	1,082	1,143	1,626	1,449	1,471
Oyster meats	322	399	563	700	668	582
Scallop meats	4,515	4,443	4,334	4,622	4,853	4,626
Shrimp:						
Raw, headless	7,929	7,411	6,891	7,465	7,455	7,636
Breaded	4,191	3,828	3,336	1,424	1,697	1,839
Peeled	20,589	18,359	16,480	19,326	19,288	19,705
Unclassified	15,372	12,505	15,797	14,460	13,546	13,195
Total, shrimp	**48,081**	**42,103**	**42,504**	**42,675**	**41,986**	**42,375**
Squid	3,361	3,259	4,622	6,040	6,755	5,453
Unclassified shellfish	6,615	5,816	5,406	7,977	9,278	9,074
Total, shellfish	**94,660**	**79,887**	**87,902**	**98,676**	**100,558**	**97,212**
Total, fish and shellfish	**372,632**	**316,541**	**318,365**	**335,990**	**332,443**	**336,294**
Cured fish (all categories)	**838**	**824**	**792**	**2,828**	**781**	**600**
Grand total	**373,470**	**317,365**	**319,157**	**338,818**	**333,224**	**336,894**

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1999 - Continued

Species	July	August	September	October	November	December
Fish	---------- Thousand pounds ----------					
Fish sticks and portions (2):	21,363	21,536	22,546	25,138	24,740	21,919
Analog products	4,059	4,350	4,910	5,159	5,371	4,503
Surimi: Pollock	13,654	15,615	19,550	15,277	12,651	10,337
Other	4,727	4,703	3,723	3,300	2,785	2,759
Total, saltwater	**237,793**	**269,445**	**274,840**	**265,910**	**253,704**	**237,956**
Freshwater:						
Fillets and steaks	184	212	217	209	224	261
Catfish	8,148	8,132	9,150	10,535	11,535	13,175
Rainbow trout	324	274	288	205	303	548
Unclassified (exc bait)	130	96	177	545	327	234
Total, freshwater	**8,786**	**8,714**	**9,832**	**11,494**	**12,389**	**14,218**
Bait & animal food	7,233	7,322	6,221	8,239	8,641	8,711
Shellfish						
Clams and clam meats	2488	2670	3083	4223	3590	3325
Crabs:						
Dungeness	1,370	1,273	569	646	544	750
King:						
Meat	217	234	166	109	314	268
Sections	4,014	3,226	2,827	3,608	6,266	7,666
Snow:						
Meat	1,283	1,332	1,336	1,504	1,432	1,420
Sections	15,319	13,829	13,515	10,727	10,005	10,186
Unclassified	5,094	5,410	5,620	3,379	2,174	3,591
Total, crab	**27,297**	**25,304**	**24,033**	**19,973**	**20,735**	**23,881**
Lobsters:						
Spiny (tails)	1,238	1,235	1,280	1,248	1,229	1,322
Unclassified (whole & meat)	1,396	1,739	1,706	1,795	1,740	1,659
Oyster meats	530	430	377	379	228	226
Scallop meats	4,370	4,522	3,731	3,452	4,060	4,649
Shrimp:						
Raw, headless	7,100	8,084	6,575	7,035	9,024	9,149
Breaded	1,597	2,198	4,234	4,226	4,303	4,528
Peeled	21,108	23,973	24,253	25,260	26,409	26,325
Unclassified	12,319	11,552	11,778	12,331	12,585	14,248
Total, shrimp	**42,124**	**45,807**	**46,840**	**48,852**	**52,321**	**54,250**
Squid	5,036	4,699	4,534	4,484	10,355	24,181
Unclassified shellfish	8,342	8,491	9,064	10,185	12,418	12,758
Total, shellfish	**92,821**	**94,897**	**94,648**	**94,591**	**106,676**	**126,251**
Total, fish and shellfish	**346,633**	**380,378**	**385,541**	**380,234**	**381,410**	**387,136**
Cured fish (all categories)	**935**	**944**	**1,590**	**1,495**	**1,213**	**1,093**
Grand total	**347,568**	**381,322**	**387,131**	**381,729**	**382,623**	**388,229**

(1) Unclassified may also include blocks and slabs made from species listed separately.
(2) Fish sticks and portions include all species that are either cooked or uncooked.

NOTE:--Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more. Totals may not agree with annual report due to rounding.

IMPORTS

U.S. imports of edible fishery products in 1999 were valued at a record $9.0 billion, $840.7 million more than in 1998. The quantity of edible imports was 3.9 billion pounds, 240.9 million pounds more than the quantity imported in 1998.

Edible imports consisted of 3.2 billion pounds of fresh and frozen products valued at $8.0 billion, 546.5 million pounds of canned products valued at $681.6 million, 66.4 million pounds of cured products valued at $145.2 million, 5.5 million pounds of caviar and roe products valued at $44.2 million, and 42.0 million pounds of other products valued at $100.0 million.

The quantity of shrimp imported in 1999 was 731.3 million pounds, 35.9 million pounds more than the quantity imported in 1998. Valued at $3.1 billion, shrimp imports accounted for 35 percent of the value of total edible imports. Imports of fresh and frozen tuna were 491.0 million pounds, 80.0 million pounds less than the 571.0 million pounds imported in 1998. Imports of canned tuna were 334.5 million pounds, 94.1 million pounds more than in 1998. Imports of fresh and frozen fillets and steaks amounted to 654.3 million pounds, an increase of 75.7 million pounds from 1998. Regular and minced block imports were 214.4 million pounds, a decrease of 18.5 million pounds from 1998.

Imports of nonedible fishery products were valued at $8.0 billion — an increase of $566.2 million compared with 1998. The total value of edible and nonedible products was $17.0 billion in 1999, $1.4 billion more than in 1998 when $15.6 billion of fishery products were imported.

EXPORTS

U.S. exports of edible fishery products were 2.0 billion pounds valued at $2.8 billion, an increase of 297.2 million pounds and $588.8 million when compared with 1998. Fresh and frozen items were 1.6 billion pounds valued at $2.2 billion, an increase of 211.4 million pounds, and $416.3 million compared with 1998. In terms of individual items, fresh and frozen exports consisted principally of 210.5 million pounds of salmon valued at $371.5 million, 273.9 million pounds of surimi valued at $299.3 million and 57.3 million pounds of lobsters valued at $262.7 million.

Canned items were 167.4 million pounds valued at $256.1 million. Salmon was the major canned item exported, with 113.7 million pounds valued at $197.7 million. Cured items were 26.6 million pounds valued at $27.3 million. Caviar and roe exports were 91.9 million pounds valued at $370.3 million.

Exports of nonedible products were valued at $7.2 billion compared with $6.4 billion in 1998. Exports of fish meal amounted to 192.5 million pounds valued at $51.5 million. The total value of edible and nonedible exports was $10.0 billion—an increase of $1.3 billion compared with 1998.

U.S. Trade in Edible Fishery Products, 1999

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1998 AND 1999

Item	1998			1999		
Edible fishery products:	Thousand	Metric	Thousand	Thousand	Metric	Thousand
Fresh and frozen:	pounds	tons	dollars	pounds	tons	dollars
Whole or eviscerated:						
Freshwater	83,131	37,708	70,283	95,933	43,515	86,846
Flatfish	38,364	17,402	70,119	45,300	20,548	95,331
Groundfish	58,922	26,727	53,054	62,776	28,475	62,231
Salmon	152,168	69,023	319,275	155,762	70,653	344,991
Tuna (1)	571,000	259,004	555,766	491,004	222,718	549,524
Other	261,507	118,619	323,940	255,941	116,094	351,498
Fillets and steaks:						
Freshwater	37,037	16,800	96,640	54,246	24,606	127,329
Flatfish	49,506	22,456	103,614	47,159	21,391	93,747
Groundfish	186,937	84,794	356,070	224,944	102,034	456,662
Other	305,081	138,384	636,439	327,952	148,758	760,499
Blocks and slabs	232,843	105,617	270,686	214,351	97,229	250,285
Surimi	7,749	3,515	5,330	21,574	9,786	16,383
Shrimp	692,017	313,897	3,101,790	728,336	330,371	3,130,821
Crabmeat	16,684	7,568	67,262	17,555	7,963	80,357
Lobster:						
American	42,542	19,297	245,578	52,525	23,825	333,743
Spiny	21,248	9,638	230,133	28,541	12,946	294,755
Scallops (meats)	52,445	23,789	218,250	44,079	19,994	192,647
Other fish and shellfish	310,004	140,617	631,687	359,511	163,073	815,241
Total, fresh and frozen	**3,119,189**	**1,414,855**	**7,355,916**	**3,227,488**	**1,463,979**	**8,042,890**
Canned:						
Anchovy	6,989	3,170	21,522	7,260	3,293	20,244
Herring	4,325	1,962	4,846	7,355	3,336	8,322
Mackerel	24,572	11,146	11,895	25,166	11,415	12,659
Salmon	1,323	600	4,990	2,229	1,011	6,287
Sardines	44,328	20,107	53,740	48,722	22,100	57,880
Tuna	240,409	109,049	288,970	334,537	151,745	335,830
Clams	11,186	5,074	10,559	11,942	5,417	10,627
Crabmeat	22,020	9,988	95,958	27,707	12,568	124,291
Lobsters	121	55	1,402	29	13	295
Oysters	13,600	6,169	25,629	12,928	5,864	26,818
Shrimp	3,406	1,545	10,622	2,945	1,336	7,626
Balls, cakes, and puddings	9,489	4,304	14,302	14,189	6,436	21,026
Other fish and shellfish	46,409	21,051	43,124	51,447	23,336	49,683
Total, canned	**428,177**	**194,220**	**587,559**	**546,454**	**247,870**	**681,588**
Cured:						
Dried	19,687	8,930	55,281	18,164	8,239	56,843
Pickled or salted	41,693	18,912	56,899	38,292	17,369	58,698
Smoked or kippered	10,836	4,915	28,381	9,985	4,529	29,675
Total, cured	**72,216**	**32,757**	**140,561**	**66,440**	**30,137**	**145,216**
Caviar and roe	4,358	1,977	33,215	5,474	2,483	44,221
Prepared meals	3,197	1,450	10,330	5,121	2,323	15,213
Other fish and shellfish	19,883	9,019	45,604	36,914	16,744	84,759
Total edible fishery products	**3,647,021**	**1,654,278**	**8,173,185**	**3,887,891**	**1,763,536**	**9,013,887**
Nonedible fishery products:						
Meal and scrap	125,404	56,883	33,574	73,069	33,144	16,634
Fish oils	24,213	10,983	19,604	25,677	11,647	15,174
Other	-	-	7,406,309	-	-	7,993,888
Total nonedible fishery products	**-**	**-**	**7,459,487**	**-**	**-**	**8,025,696**
Grand total	**-**	**-**	**15,632,672**	**-**	**-**	**17,039,583**

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, headed, etc. Imports and Exports of Fishery Products, Annual Summary, 1999, Current Fishery Statistics No. 9902 provides additional information.

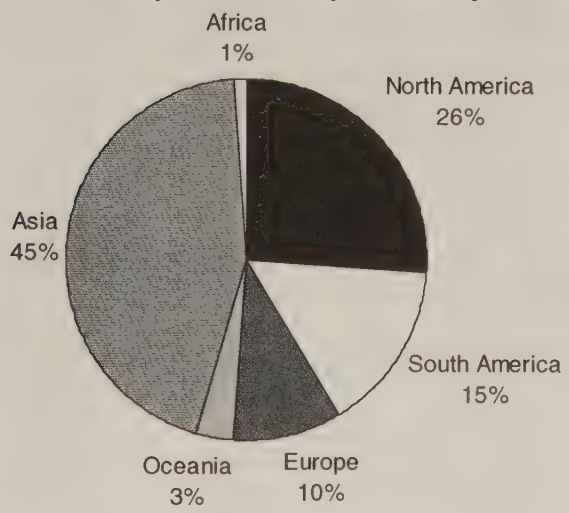
Source:—U.S. Department of Commerce, Bureau of the Census.

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1990-99

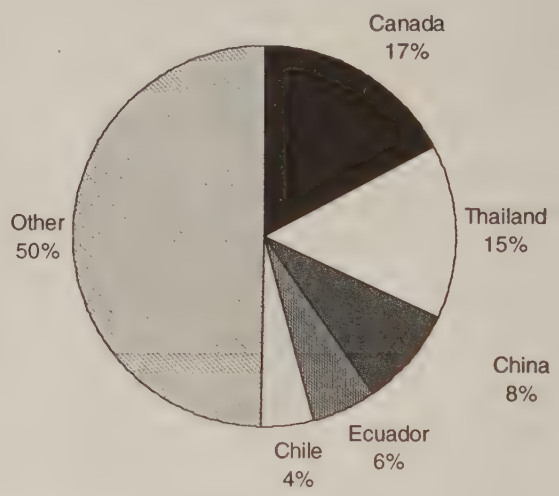
Year	Edible		Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars	
1990	2,884,596	1,308,444	5,233,167	3,814,513	9,047,680
1991	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355
1997	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326
1998	3,647,021	1,654,278	8,173,185	7,459,487	15,632,672
1999	3,887,891	1,763,536	9,013,887	8,025,696	17,039,583

Source:--U.S. Department of Commerce, Bureau of the Census.

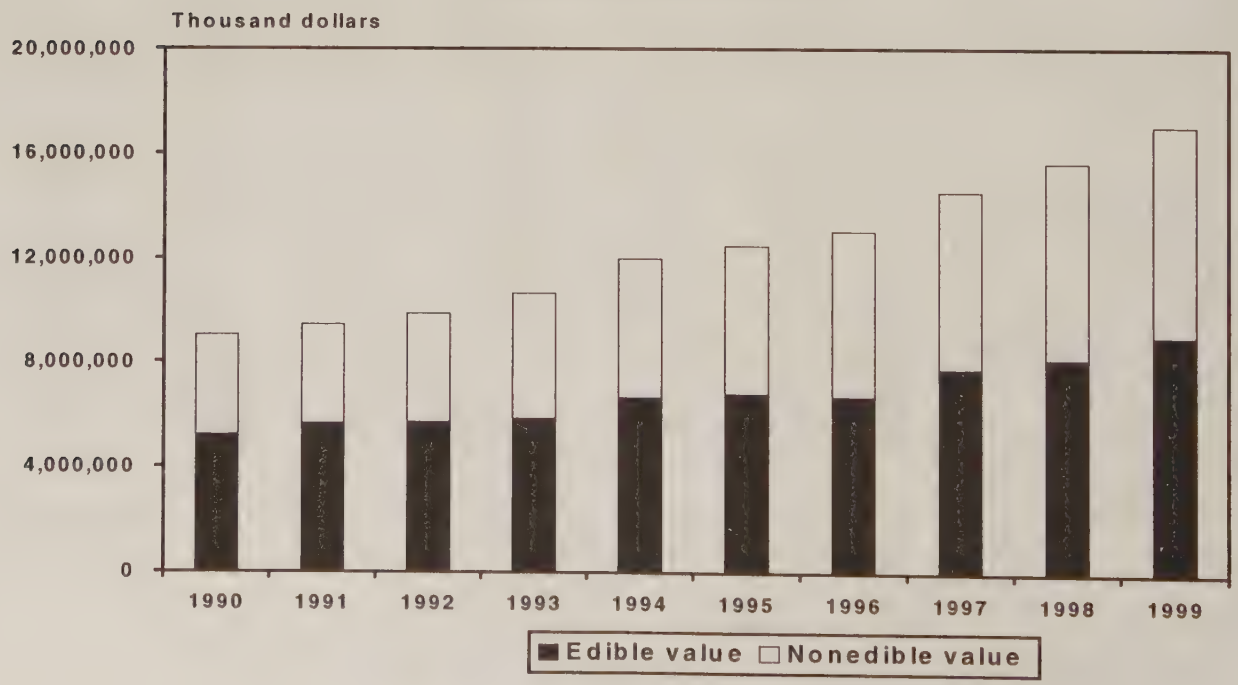
U.S. Imports from Major Areas by Volume



U.S. Imports from Major Exporters by Volume



U.S. Fishery Product Imports



EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1999

Continent and Country	Edible			Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars		
North America:					
Canada	671,279	304,490	1,712,409	874,485	2,586,894
Mexico	147,666	66,981	494,487	212,797	707,284
Dominican Republic	397	180	542	156,192	156,734
Honduras	29,471	13,368	114,067	88	114,155
Costa Rica	22,275	10,104	60,547	42,089	102,636
Other	140,210	63,599	424,381	48,455	472,836
Total	**1,011,299**	**458,722**	**2,806,433**	**1,334,106**	**4,140,539**
South America:					
Ecuador	221,393	100,423	555,761	7,514	563,275
Chile	168,465	76,415	371,334	20,462	391,796
Venezuela	37,344	16,939	119,832	4,630	124,462
Brazil	29,295	13,288	83,989	32,763	116,752
Argentina	73,334	33,264	90,220	14,492	104,712
Other	72,340	32,813	147,497	107,369	254,866
Total	**602,169**	**273,142**	**1,368,633**	**187,230**	**1,555,863**
Europe:					
European Union:					
Italy	1,063	482	3,039	1,516,262	1,519,301
France	3,609	1,637	9,099	665,523	674,622
Germany	2,066	937	3,351	291,488	294,839
United Kingdom	25,538	11,584	58,564	206,429	264,993
Spain	23,706	10,753	28,948	63,240	92,188
Other	22,487	10,200	56,641	176,038	232,679
Total	**78,468**	**35,593**	**159,642**	**2,918,980**	**3,078,622**
Other:					
Russian Federation	125,155	56,770	306,486	5,584	312,070
Iceland	91,171	41,355	238,362	7,576	245,938
Turkey	1,120	508	2,314	180,894	183,208
Norway	65,554	29,735	160,471	18,850	179,321
Switzerland	146	66	97	120,239	120,336
Other	12,266	5,564	32,379	39,534	71,913
Total	**295,412**	**133,998**	**740,109**	**372,677**	**1,112,786**
Asia:					
Thailand	565,328	256,431	1,558,925	494,598	2,053,523
China	327,211	148,422	440,465	341,717	782,182
India	83,777	38,001	199,033	519,470	718,503
Japan	80,415	36,476	174,662	435,648	610,310
Hong Kong	5,955	2,701	9,724	576,796	586,520
Other	664,006	301,191	1,190,682	689,368	1,880,050
Total	**1,726,691**	**783,222**	**3,573,491**	**3,057,597**	**6,631,088**
Oceania:					
New Zealand	79,178	35,915	155,302	7,911	163,213
Australia	12,703	5,762	80,497	61,086	141,583
French Polynesia	474	215	958	31,385	32,343
Fiji	12,491	5,666	11,624	2,322	13,946
Western Samoa	7,884	3,576	9,369	75	9,444
Other	14,270	6,473	13,303	2,001	15,304
Total	**127,000**	**57,607**	**271,053**	**104,780**	**375,833**
Africa:					
South Africa	22,895	10,385	44,028	22,817	66,845
Morocco	7,928	3,596	18,598	3,576	22,174
Namibia	7,661	3,475	17,715	247	17,962
Zimbabwe	-	-	-	12,174	12,174
Tanzania	5,734	2,601	7,545	4,530	12,075
Other	2,634	1,195	6,640	6,982	13,622
Total	**46,852**	**21,252**	**94,526**	**50,326**	**144,852**
Grand total	**3,887,891**	**1,763,536**	**9,013,887**	**8,025,696**	**17,039,583**

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1998 AND 1999

Species and type	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Regular blocks and slabs:						
Cod	30,538	13,852	63,265	26,696	12,109	49,413
Flatfish	7,328	3,324	12,662	5,646	2,561	9,195
Haddock	9,517	4,317	20,133	5,302	2,405	12,008
Ocean perch	520	236	990	353	160	625
Pollock	124,470	56,459	113,989	126,299	57,289	128,768
Whiting	18,960	8,600	18,328	13,441	6,097	12,058
Other	14,337	6,503	19,513	8,915	4,044	11,209
Total	**205,669**	**93,291**	**248,880**	**186,652**	**84,665**	**223,276**
Minced blocks and slabs	27,174	12,326	21,806	27,699	12,564	27,009
Grand total	**232,843**	**105,617**	**270,686**	**214,351**	**97,229**	**250,285**

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Russian Federation	66,579	30,200	72,956	59,934	27,186	84,661
China	87,106	39,511	70,029	93,283	42,313	76,431
Canada	11,984	5,436	17,970	14,385	6,525	18,497
Iceland	9,259	4,200	18,251	7,745	3,513	13,171
Denmark	7,551	3,425	16,412	5,212	2,364	11,208
New Zealand	3,164	1,435	3,675	5,725	2,597	8,461
Argentina	14,544	6,597	14,247	8,602	3,902	8,246
Norway	8,777	3,981	18,358	3,155	1,431	6,124
St. Pierre & Miquelon	1,706	774	3,677	1,627	738	3,058
Other	22,174	10,058	35,111	14,683	6,660	20,428
Total	**232,843**	**105,617**	**270,686**	**214,351**	**97,229**	**250,285**

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1998 AND 1999 (1)

Species	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Cod	77,794	35,287	194,193	98,184	44,536	270,606
Haddock (2)	83,303	37,786	108,668	108,718	49,314	152,747
Ocean perch	25,840	11,721	53,209	18,042	8,184	33,309
Total	**186,937**	**84,794**	**356,070**	**224,944**	**102,034**	**456,662**

(1) Does not include data on fish blocks and slabs.
(2) Includes some quantities of cusk, hake, and pollock fillets.

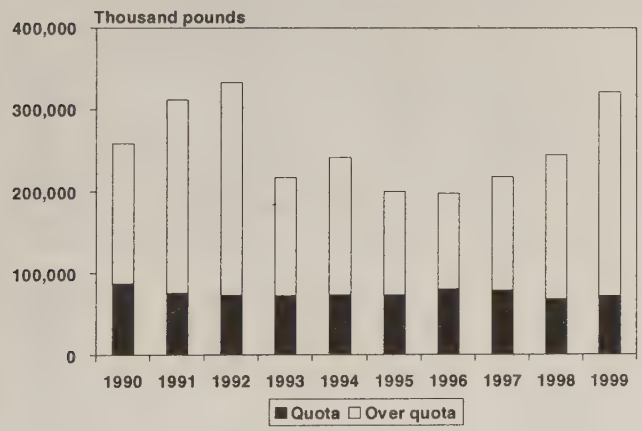
Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1990-99

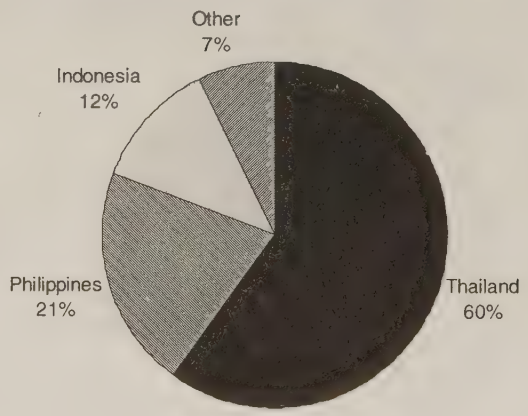
Year	Quota (1)		Over quota (2)		Total	
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
1990	87,157	39,534	171,472	77,779	258,628	117,313
1991	75,093	34,062	237,237	107,610	312,330	141,672
1992	73,724	33,441	259,739	117,817	333,463	151,258
1993	72,681	32,968	144,287	65,448	216,968	98,416
1994	73,294	33,246	168,224	76,306	241,518	109,552
1995	73,367	33,279	126,176	57,233	199,543	90,512
1996	80,027	36,300	117,205	53,164	197,232	89,464
1997	78,620	35,662	139,714	63,374	218,335	99,036
1998	67,317	30,535	176,648	80,127	243,965	110,662
1999	72,086	32,698	249,016	112,953	321,102	145,651

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1999, 6 percent.
(2) Dutiable in 1972 to 1999, 12.5 percent.
Note:—Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts for possessions of the U.S., is subject to this quota.
Source:—U.S. Department of the Treasury, U.S. Customs Service.

Canned Tuna Quota and Imports



Imports of Canned Tuna by Major Exporter, 1999



CANNED TUNA, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Thailand	114,302	51,847	150,367	190,334	86,335	201,956
Philippines	85,726	38,885	89,899	85,080	38,592	69,476
Indonesia	27,705	12,567	33,221	38,437	17,435	40,341
Ecuador	1,526	692	2,549	4,153	1,884	7,326
Papua New Guinea	3,472	1,575	3,525	7,522	3,412	6,358
Malaysia	2,396	1,087	3,844	2,950	1,338	4,477
Mexico	3,541	1,606	2,947	3,320	1,506	2,465
South Korea	243	110	246	459	208	703
China	73	33	67	785	356	688
Other	1,426	647	2,305	1,497	679	2,040
Total	**240,409**	**109,049**	**288,970**	**334,537**	**151,745**	**335,830**

Source:--U.S. Department of Commerce, Bureau of the Census.

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
North America:						
Mexico	78,120	35,435	382,517	77,262	35,046	386,104
Panama	22,465	10,190	91,552	17,101	7,757	68,929
Honduras	18,990	8,614	67,152	16,318	7,402	67,261
Canada	17,366	7,877	45,901	14,469	6,563	44,101
Nicaragua	8,373	3,798	31,298	9,550	4,332	37,184
El Salvador	8,838	4,009	30,906	6,014	2,728	24,984
Belize	3,056	1,386	11,119	4,941	2,241	22,804
Guatemala	5,223	2,369	18,807	4,004	1,816	16,052
Costa Rico	1,832	831	10,832	2,615	1,186	15,179
Greenland	1,082	491	2,773	553	251	1,368
Other	35	16	124	18	8	127
Total	**165,380**	**75,016**	**692,981**	**152,845**	**69,330**	**684,093**
South America:						
Ecuador	142,303	64,548	572,047	111,140	50,413	402,932
Venezuela	12,615	5,722	47,698	26,585	12,059	93,566
Guyana	12,414	5,631	29,717	12,568	5,701	28,102
Colombia	4,694	2,129	20,978	6,027	2,734	27,268
Peru	15,315	6,947	45,499	4,722	2,142	17,888
Brazil	1,812	822	7,382	4,215	1,912	14,889
Suriname	1,938	879	4,253	2,892	1,312	5,538
Chile	979	444	3,457	994	451	3,817
Argentina	66	30	200	101	46	637
Total	**192,135**	**87,152**	**731,231**	**169,247**	**76,770**	**594,637**
Europe:						
European Union:						
United Kingdom	79	36	238	134	61	423
Denmark	88	40	234	79	36	191
Germany	73	33	200	40	18	58
Spain	11	5	32	4	2	29
Netherlands	35	16	68	2	1	9
Other	143	13	151	141	2	8
Total	**315**	**143**	**923**	**265**	**120**	**718**
Other:						
Norway	831	377	2,394	139	63	455
Iceland	789	358	2,136	161	73	395
Estonia	-	-	-	44	20	146
Bulgaria	37	17	272	13	6	86
Other	194	88	395	-	-	-
Total	**1,852**	**840**	**5,197**	**355**	**161**	**1,082**
Asia:						
Thailand	203,407	92,265	1,088,062	252,433	114,503	1,196,972
Indonesia	33,697	15,285	188,739	35,335	16,028	167,327
India	44,425	20,151	150,847	48,109	21,822	160,758
Bangladesh	13,929	6,318	90,847	19,290	8,750	112,228
Viet Nam	11,087	5,029	75,909	17,815	8,081	109,065
China	15,423	6,996	35,936	19,502	8,846	49,272
Philippines	3,915	1,776	20,073	3,613	1,639	17,335
Pakistan	3,186	1,445	6,852	3,036	1,377	9,652
Sri Lanka	1,442	654	8,423	1,828	829	8,983
Malaysia	1,612	731	4,482	1,823	827	6,691
Other	3,424	1,553	11,203	5,545	2,515	18,641
Total	**335,547**	**152,203**	**1,681,373**	**408,329**	**185,217**	**1,856,924**
Oceania	82	37	375	152	69	706
Africa	112	51	332	88	40	287
Grand total	**695,423**	**315,442**	**3,112,412**	**731,281**	**331,707**	**3,138,447**

Note:--Statistics on imports are the weights of the individual products as received, i.e., raw headless, peeled, etc.

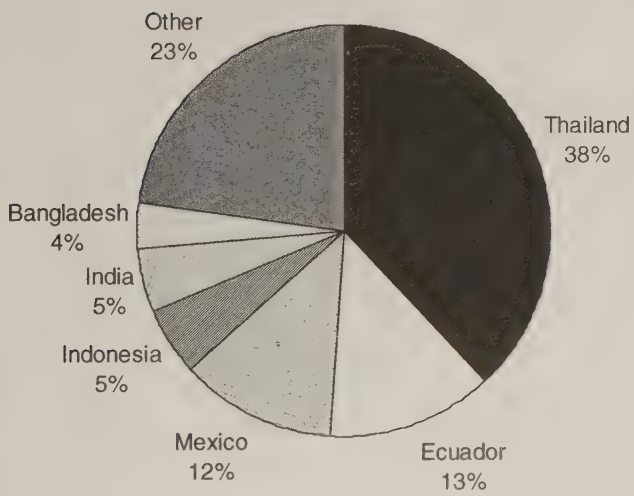
Source:--U.S. Department of Commerce, Bureau of the Census.

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1998 AND 1999

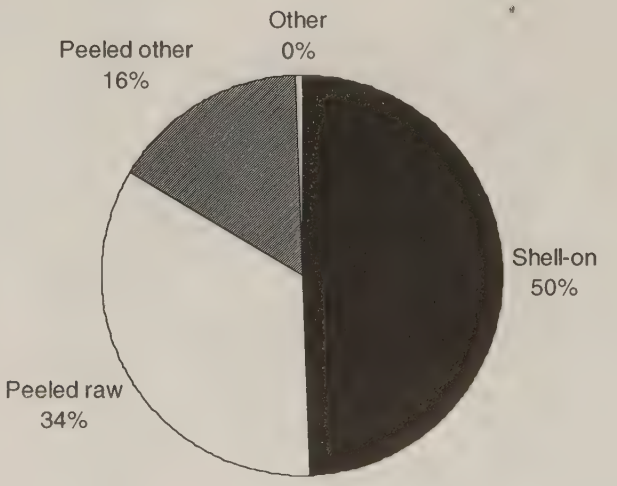
Type of product	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off)	341,894	155,082	1,607,185	344,901	156,446	1,554,481
Peeled:						
Canned	3,406	1,545	10,622	2,945	1,336	7,626
Not breaded:						
Raw	264,378	119,921	1,053,583	275,538	124,983	1,073,958
Other	85,128	38,614	438,206	105,609	47,904	495,089
Breaded	617	280	2,816	2,288	1,038	7,293
Total	**695,423**	**315,442**	**3,112,412**	**731,281**	**331,707**	**3,138,447**

Source:--U.S. Department of Commerce, Bureau of the Census.

Shrimp Imports by Major Exporter, 1999



Shrimp Imports by Type, 1999



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1998 AND 1999

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Iceland	34,908	15,834	9,594	24,722	11,214	6,527
Canada	16,144	7,323	5,742	15,657	7,102	4,026
Peru	10,430	4,731	2,628	24,619	11,167	3,613
Mexico	17,141	7,775	4,604	2,504	1,136	679
Japan	1,343	609	700	2,326	1,055	667
Denmark	785	356	300	1,387	629	362
China	238	108	200	187	85	219
Chile	13,971	6,337	4,218	886	402	179
South Korea	97	44	59	159	72	100
Other	30,349	13,766	5,529	622	282	262
Total	**125,404**	**56,883**	**33,574**	**73,069**	**33,144**	**16,634**

Source:--U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1998 AND 1999 (1)

Item	1998			1999		
Edible fishery products:	Thousand	Metric	Thousand	Thousand	Metric	Thousand
Fresh and frozen:	pounds	tons	dollars	pounds	tons	dollars
Whole or eviscerated:						
Freshwater	4,751	2,155	6,081	3,393	1,539	4,348
Flatfish	164,856	74,778	103,219	120,343	54,587	121,212
Groundfish	95,735	43,425	74,817	124,842	56,628	122,914
Herring	49,661	22,526	31,164	47,752	21,660	32,573
Sablefish	22,707	10,300	48,253	29,495	13,379	61,419
Salmon	153,436	69,598	255,102	210,542	95,501	371,478
Tuna	34,026	15,434	37,551	22,017	9,987	27,531
Other	281,732	127,793	211,791	344,590	156,305	219,222
Fillets, and steaks:						
Freshwater	520	236	1,123	545	247	1,132
Groundfish	63,481	28,795	63,478	37,474	16,998	45,614
Other	37,015	16,790	54,316	45,538	20,656	76,975
Blocks and slabs	44,848	20,343	45,820	59,705	27,082	63,236
Surimi	255,317	115,811	248,415	273,913	124,246	299,300
Fish sticks	25,734	11,673	30,354	22,414	10,167	27,285
Clams	1,649	748	2,825	1,911	867	2,655
Crabs	50,739	23,015	108,994	56,784	25,757	143,908
Crabmeat	3,278	1,487	5,568	3,840	1,742	7,817
Lobsters	42,972	19,492	187,762	57,264	25,975	262,721
Scallops (meats)	7,306	3,314	25,055	6,982	3,167	25,231
Sea urchins	4,220	1,914	10,063	4,398	1,995	11,539
Shrimp	32,432	14,711	121,397	32,864	14,907	122,760
Squid	35,591	16,144	28,923	114,368	51,877	61,066
Other fish and shellfish	30,291	11,585	56,688	31,387	12,698	63,131
Total, fresh and frozen	**1,437,547**	**652,067**	**1,758,759**	**1,648,968**	**747,967**	**2,175,067**
Canned:						
Salmon	77,450	35,131	143,288	113,726	51,586	197,680
Sardines	6,314	2,864	4,963	3,803	1,725	3,172
Tuna	9,319	4,227	15,437	7,945	3,604	12,084
Abalone	238	108	4,656	220	100	2,963
Crabmeat	558	253	1,374	1,329	603	3,279
Shrimp	1,660	753	8,732	2,355	1,068	9,025
Squid	132	60	155	4,270	1,937	2,397
Other fish and shellfish	23,475	10,648	24,304	33,755	15,311	25,529
Total, canned	**119,145**	**54,044**	**202,909**	**167,404**	**75,934**	**256,129**
Cured:						
Dried	2,434	1,104	6,215	2,055	932	4,347
Pickled or salted	12,624	5,726	15,323	23,845	10,816	20,627
Smoked or kippered	430	195	1,673	675	306	2,303
Total, cured	**15,487**	**7,025**	**23,211**	**26,574**	**12,054**	**27,277**
Caviar and roe:						
Herring	15,095	6,847	17,788	24,908	11,298	45,869
Pollock	26,746	12,132	84,714	24,780	11,240	109,451
Salmon	15,800	7,167	50,950	16,389	7,434	71,557
Sea urchin	4,656	2,112	73,589	4,938	2,240	79,286
Other	10,086	4,575	30,955	20,919	9,489	64,176
Total, caviar and roe	**72,384**	**32,833**	**257,996**	**91,934**	**41,701**	**370,339**
Prepared meals	3,508	1,591	4,238	4,310	1,955	7,218
Other fish and shellfish	15,818	7,175	12,614	21,931	9,948	12,518
Total edible products	**1,663,889**	**754,735**	**2,259,727**	**1,961,122**	**889,559**	**2,848,548**
Nonedible products:						
Meal and scrap	210,658	95,554	68,447	192,512	87,323	51,540
Fish oils	196,664	89,206	59,890	232,546	105,482	35,833
Other	-	-	6,368,938	-	-	7,106,762
Total nonedible products	**-**	**-**	**6,437,385**	**-**	**-**	**7,158,302**
Grand total	**-**	**-**	**8,697,112**	**-**	**-**	**10,006,850**

(1) Figures reflect both domestic and foreign (re-exports).

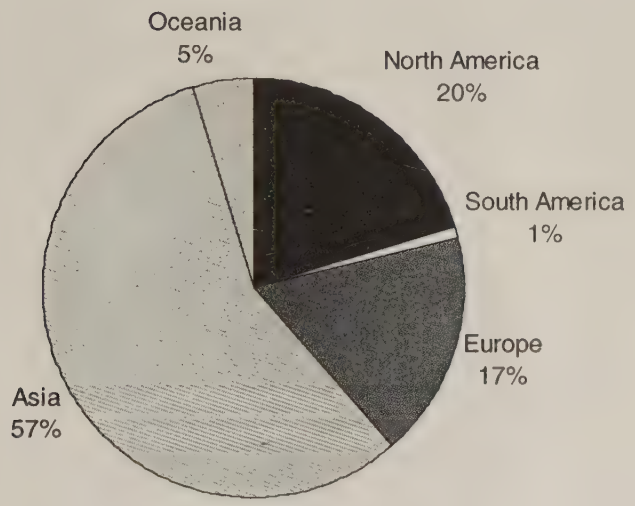
Source:–U.S. Department of Commerce, Bureau of the Census.

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1990-99 (1)

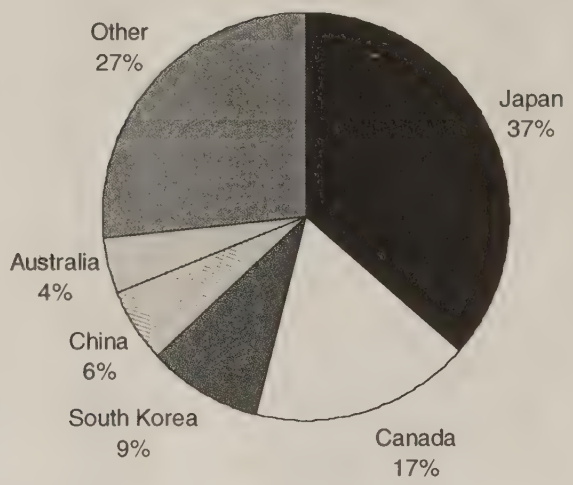
Year	Edible		Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars	
1990	1,947,292	883,286	2,881,262	3,084,677	5,965,939
1991	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996	2,112,055	958,022	3,032,282	5,621,169	8,653,451
1997	2,018,889	915,762	2,713,082	6,640,553	9,353,635
1998	1,663,889	754,735	2,259,727	6,437,385	8,697,112
1999	1,961,122	889,559	2,848,548	7,158,302	10,006,850

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

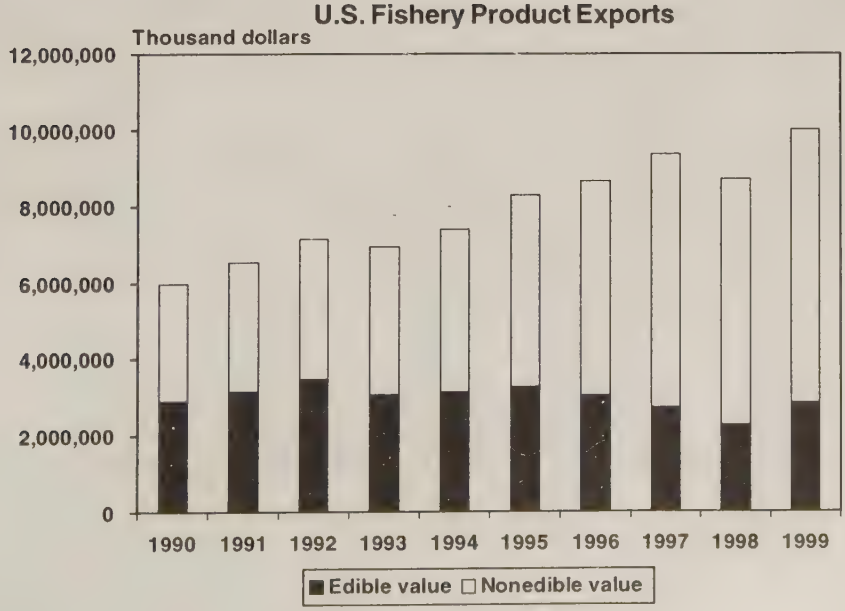
U.S. Exports to Major Areas by Volume



U.S. Exports to Major Importers by Volume, 1999



U.S. Fishery Product Exports



EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1999 (1)

Continent and Country	Edible			Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars		
North America:					
Canada	338,730	153,647	643,308	1,477,188	2,120,496
Mexico	29,784	13,510	47,951	716,717	764,668
Netherlands Antilles	926	420	1,440	121,949	123,389
Dominican Republic	5,170	2,345	5,558	82,781	88,339
Panama	2,881	1,307	5,256	53,325	58,581
Other	18,664	8,466	29,140	274,689	303,829
Total	**396,156**	**179,695**	**732,653**	**2,726,649**	**3,459,302**
South America:					
Brazil	3,794	1,721	4,187	169,522	173,709
Venezuela	6,098	2,766	2,745	67,078	69,823
Argentina	1,459	662	1,211	62,432	63,643
Colombia	1,323	600	1,357	47,939	49,296
Chile	549	249	586	43,813	44,399
Other	2,806	1,273	7,387	91,443	98,830
Total	**16,030**	**7,271**	**17,473**	**482,227**	**499,700**
Europe:					
European Union:					
United Kingdom	70,763	32,098	122,236	285,298	407,534
Netherlands	20,304	9,210	28,568	193,931	222,499
France	51,510	23,365	91,967	121,386	213,353
Germany	18,040	8,183	24,726	152,393	177,119
Belgium	6,975	3,164	14,595	141,457	156,052
Other	140,975	63,946	178,428	215,657	394,085
Total	**308,569**	**139,966**	**460,520**	**1,110,122**	**1,570,642**
Other:					
Switzerland	1,534	696	4,627	577,439	582,066
Norway	15,928	7,225	18,397	22,889	41,286
Russian Federation	7,035	3,191	9,557	5,503	15,060
Turkey	128	58	186	8,008	8,194
Estonia	675	306	510	7,508	8,018
Other	4,786	2,171	4,665	38,078	42,743
Total	**30,086**	**13,647**	**37,942**	**659,425**	**697,367**
Asia:					
Japan	716,036	324,792	1,170,341	726,383	1,896,724
Hong Kong	30,463	13,818	33,951	375,284	409,235
South Korea	182,078	82,590	176,878	146,266	323,144
China	111,456	50,556	92,079	72,409	164,488
Taiwan	23,016	10,440	42,014	120,522	162,536
Other	41,550	18,847	39,508	516,740	556,248
Total	**1,104,599**	**501,043**	**1,554,771**	**1,957,604**	**3,512,375**
Oceania:					
Australia	88,226	40,019	36,694	131,152	167,846
New Zealand	2,679	1,215	2,549	27,734	30,283
French Polynesia	1,265	574	1,227	1,360	2,587
Fiji	1,171	531	766	224	990
Fed.States of Micronesia	333	151	190	541	731
Other	1,082	491	403	1,135	1,538
Total	**94,756**	**42,981**	**41,829**	**162,146**	**203,975**
Africa:					
South Africa	1,175	533	884	35,360	36,244
Egypt	3,818	1,732	876	9,500	10,376
Nigeria	4,524	2,052	925	3,476	4,401
Ghana	1,345	610	599	1,046	1,645
Zimbabwe	-	-	-	1,550	1,550
Other	64	29	76	9,197	9,273
Total	**10,926**	**4,956**	**3,360**	**60,129**	**63,489**
Grand total	**1,961,122**	**889,559**	**2,848,548**	**7,158,302**	**10,006,850**

(1) Figures reflect both domestic and foreign (re-exports).

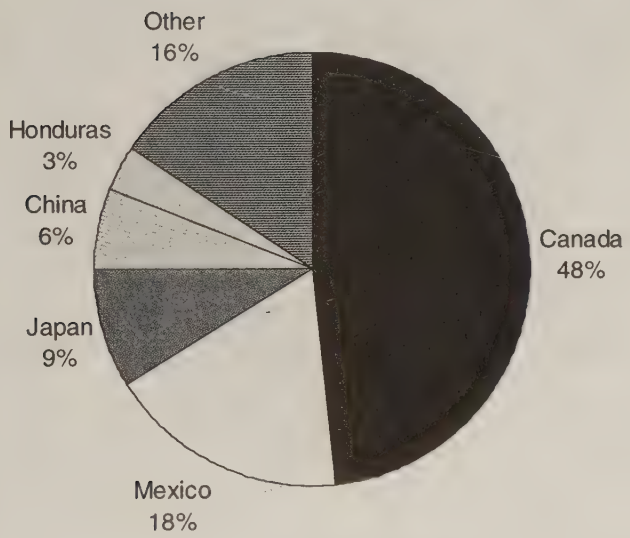
Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

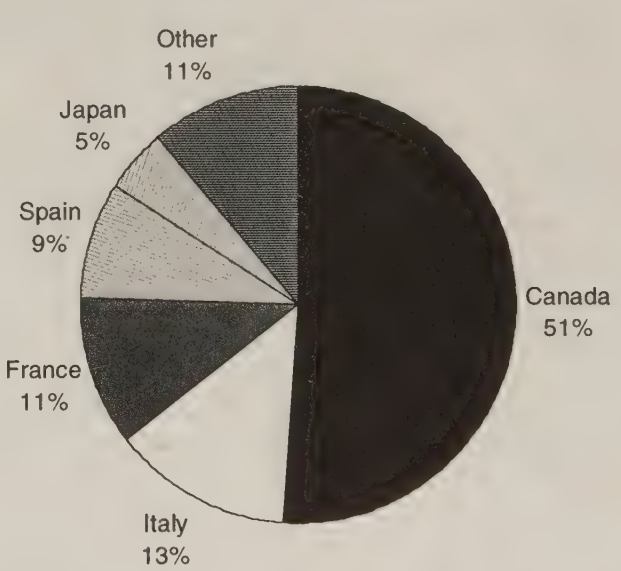
Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	15,858	7,193	64,085	15,176	6,884	59,458
Mexico	8,131	3,688	23,481	6,803	3,086	21,762
Japan	1,711	776	8,813	2,403	1,090	10,990
China	1,724	782	4,697	2,478	1,124	7,269
Honduras	791	359	2,906	1,204	546	4,250
Ecuador	130	59	660	694	315	3,111
Panama	33	15	176	489	222	2,251
Taiwan	106	48	311	494	224	1,547
Bermuda	163	74	1,063	194	88	1,103
Other	3,785	1,717	15,205	2,928	1,328	11,019
Total	**32,432**	**14,711**	**121,397**	**32,864**	**14,907**	**122,760**

(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Shrimp, 1999



U.S. Exports of Lobster, 1999



FRESH AND FROZEN LOBSTER EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	21,799	9,888	72,816	34,143	15,487	134,328
Italy	6,331	2,421	28,019	6,349	2,880	35,002
France	4,160	1,887	22,085	5,520	2,504	28,992
Spain	3,399	1,542	16,084	4,484	2,034	22,964
Japan	1,978	897	12,610	1,878	852	12,332
Taiwan	1,367	620	11,001	791	359	6,232
Germany	637	289	3,601	732	332	4,160
Belgium	390	177	2,131	476	216	2,756
United Kingdom	509	231	2,478	304	138	1,823
Other	3,395	1,540	16,937	2,586	1,173	14,132
Total	**42,972**	**19,492**	**187,762**	**57,264**	**25,975**	**262,721**

(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	66,918	30,354	148,041	106,021	48,091	232,579
Canada	43,550	19,754	56,196	56,025	25,413	75,880
France	9,303	4,220	10,171	10,007	4,539	13,950
China	5,481	2,486	9,735	5,443	2,469	8,374
Germany	10,300	4,672	9,226	6,598	2,993	6,464
Denmark	2,727	1,237	2,799	4,268	1,936	5,827
Belgium	1,821	826	2,318	2,449	1,111	3,365
Netherlands	1,069	485	1,786	2,114	959	2,985
Sweden	1,629	739	1,510	2,930	1,329	2,684
Other	10,637	4,825	13,320	14,685	6,661	19,370
Total	**153,436**	**69,598**	**255,102**	**210,542**	**95,501**	**371,478**

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
United Kingdom	31,804	14,426	66,885	54,414	24,682	97,544
Canada	27,401	12,429	43,001	29,817	13,525	54,255
Australia	7,917	3,591	15,380	10,179	4,617	16,824
Netherlands	5,236	2,375	8,689	6,122	2,777	9,632
France	1,691	767	2,899	3,435	1,558	6,388
Russian Federation	26	12	13	4,334	1,966	5,267
Belgium	677	307	1,043	935	424	1,406
South Korea	-	-	-	1,120	508	1,216
New Zealand	871	395	1,997	644	292	1,116
Other	1,828	829	3,381	2,727	1,237	4,032
Total	**77,450**	**35,131**	**143,288**	**113,726**	**51,586**	**197,680**

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FROZEN SURIMI EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	188,379	85,448	176,879	177,541	80,532	199,475
South Korea	42,236	19,158	48,470	72,112	32,710	77,212
France	5,234	2,374	4,644	6,762	3,067	5,356
Taiwan	6,177	2,802	5,141	6,191	2,808	5,001
Portugal	-	-	-	1,437	652	2,436
Canada	1,440	653	1,296	1,294	587	1,385
Norway	1,396	633	2,315	807	366	1,069
Netherlands	1,124	510	1,224	734	333	1,038
Russian Federation	562	255	639	1,323	600	984
Other	8,770	3,978	7,807	5,712	2,591	5,344
Total	**255,317**	**115,811**	**248,415**	**273,913**	**124,246**	**299,300**

(1) Figures reflect both domestic and foreign (re-exports).

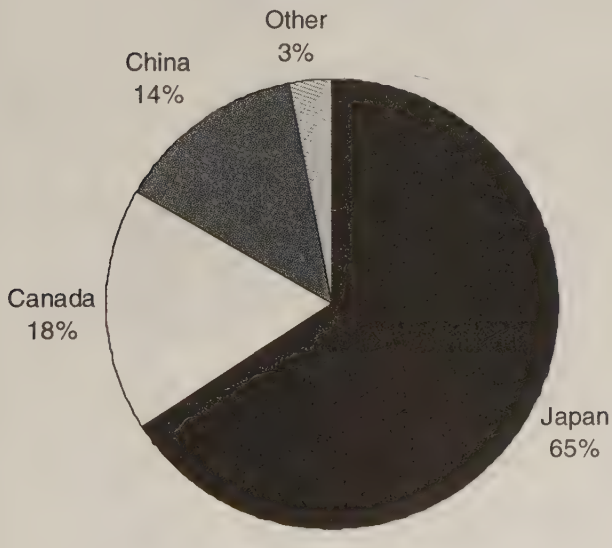
Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

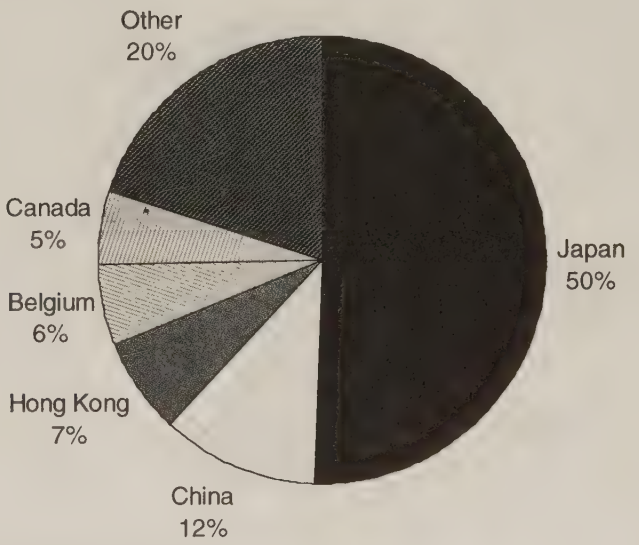
Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	33,552	15,219	76,928	32,946	14,944	94,574
Canada	12,681	5,752	23,522	14,733	6,683	25,192
China	2,557	1,160	4,812	7,604	3,449	19,649
United Kingdom	121	55	459	203	92	713
Viet Nam	9	4	80	157	71	449
Thailand	461	209	377	192	87	420
Taiwan	11	5	38	49	22	356
Belize	31	14	83	128	58	347
France	82	37	344	97	44	326
Other	1,235	560	2,351	677	307	1,882
Total	**50,739**	**23,015**	**108,994**	**56,784**	**25,757**	**143,908**

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S Exports of Crabs, 1999



U.S Exports of Crabmeat, 1999



FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	882	400	1,884	2,000	907	3,948
China	370	168	515	437	198	905
Hong Kong	42	19	209	157	71	527
Belgium	2	1	3	68	31	463
Canada	73	33	257	126	57	420
Thailand	399	181	371	384	174	395
Mexico	112	51	307	128	58	212
Indonesia	-	-	-	79	36	111
Singapore	-	-	-	40	18	109
Other	1,398	634	2,022	423	192	727
Total	**3,278**	**1,487**	**5,568**	**3,840**	**1,742**	**7,817**

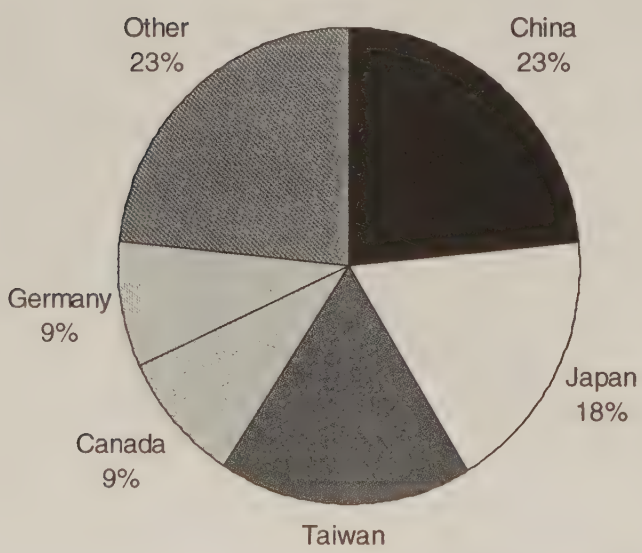
(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

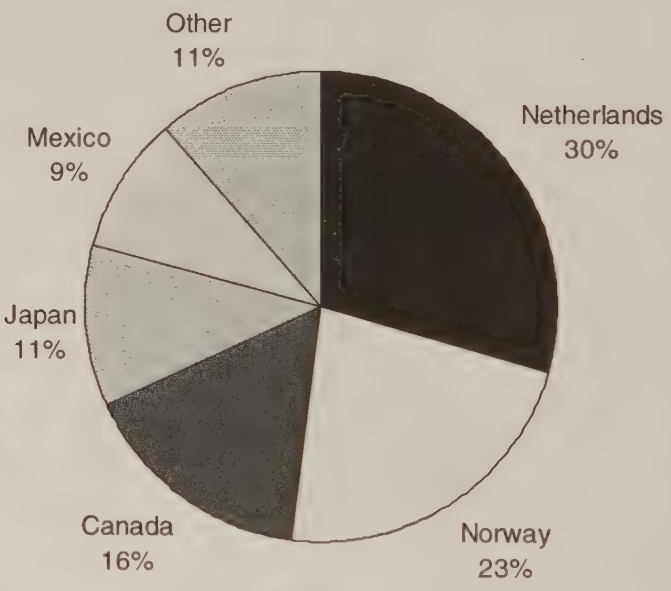
Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
China	29,156	13,225	7,968	59,339	26,916	11,972
Japan	27,793	12,607	8,851	22,661	10,279	9,371
Taiwan	42,355	19,212	12,234	26,224	11,895	9,094
Canada	35,280	16,003	8,678	20,917	9,488	4,643
Germany	12,542	5,689	3,154	30,867	14,001	4,498
Mexico	7,690	3,488	5,632	10,972	4,977	2,546
Hong Kong	4,081	1,851	1,315	4,273	1,938	1,338
South Korea	3,225	1,463	1,486	2,948	1,337	1,236
Lithuania	-	-	-	1,556	706	1,086
Other	48,536	22,016	19,129	12,756	5,786	5,756
Total	**210,658**	**95,554**	**68,447**	**192,512**	**87,323**	**51,540**

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S Exports of Fish Meal, 1999



U.S Exports of Fish Oil, 1999



FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1998 AND 1999 (1)

Country	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Netherlands	63,819	28,948	18,463	87,964	39,900	10,536
Norway	28,774	13,052	7,809	71,482	32,424	8,127
Canada	49,720	22,553	15,867	22,729	10,310	5,694
Japan	35,950	16,307	11,104	13,378	6,068	3,995
Mexico	1,858	843	478	30,346	13,765	3,375
China	2,707	1,228	1,743	2,099	952	1,856
South Korea	161	73	93	2,310	1,048	731
Hong Kong	604	274	367	661	300	469
United Kingdon	639	290	583	304	138	301
Other	12,430	5,638	3,383	1,272	577	749
Total	**196,664**	**89,206**	**59,890**	**232,546**	**105,482**	**35,833**

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL FISHERY PRODUCTS, 1990-99
(Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
	Million pounds			
1990	9,404	6,945	4,191	12,158
1991	9,484	6,879	4,719	11,644
1992	9,637	6,469	5,278	10,828
1993	10,467	9,867	5,578	14,756
1994	10,461	8,848	5,202	14,107
1995	9,788	6,696	5,252	11,232
1996	9,565	6,909	5,418	11,056
1997	9,842	7,290	5,537	11,595
1998	9,194	7,703	4,889	12,008
1999	9,339	8,039	5,207	12,171

(1) Preliminary.

Note: The weight of U.S. landings and imports represent the round(live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc) which are shown in weight of meats excluding the shell.

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS, 1990-99
(Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
	Million pounds			
1990	7,041	5,621	3,396	9,266
1991	7,031	5,989	3,564	9,456
1992	7,618	5,624	4,123	9,119
1993	8,214	5,607	4,386	9,435
1994	7,936	5,778	4,306	9,408
1995	7,667	5,917	4,261	9,323
1996	7,474	6,150	4,374	9,250
1997	7,244	6,495	4,326	9,413
1998	7,173	7,001	3,709	10,465
1999	6,832	7,630	4,129	10,333

(1) Preliminary.

U.S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1990-99
(Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
	Million pounds			
1990	2,363	1,324	795	2,892
1991	2,453	890	1,155	2,188
1992	2,019	845	1,448	1,416
1993	2,253	4,260	1,192	5,321
1994	2,525	3,070	896	4,699
1995	2,121	779	991	1,909
1996	2,091	759	1,044	1,806
1997	2,598	795	1,211	2,182
1998	2,021	702	1,180	1,543
1999	2,507	409	1,078	1,838

(1) Preliminary.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1998 AND 1999

Item	Domestic commercial landings		Imports		Exports		Total	
	1998	1999	1998	1999	1998	1999	1998	1999
	Thousand pounds--round weight							
Edible products:								
Finfish	5,935,025	5,490,493	4,901,349	5,340,994	3,374,636	3,670,657	7,461,738	7,160,830
Shellfish, et al	1,238,478	1,341,113	2,099,667	2,289,177	334,322	458,819	3,003,823	3,171,471
Total, edible	**7,173,503**	**6,831,606**	**7,001,016**	**7,630,171**	**3,708,958**	**4,129,476**	**10,465,561**	**10,332,301**
Industrial products: (1)								
Finfish	1,952,995	2,321,375	702,264	409,188	1,179,687	1,078,069	1,475,572	1,652,494
Shellfish, et al	67,472	186,053	(2)	(2)	(2)	(2)	67,472	186,053
Total, industrial	**2,020,467**	**2,507,428**	**702,264**	**409,188**	**1,179,687**	**1,078,069**	**1,543,044**	**1,838,547**
Total:								
Finfish	7,888,020	7,811,868	5,603,613	5,750,182	4,554,323	4,748,726	8,937,310	8,813,324
Shellfish, et al	1,305,950	1,527,166	2,099,667	2,289,177	334,322	458,819	3,071,295	3,357,524
Grand total	**9,193,970**	**9,339,034**	**7,703,280**	**8,039,359**	**4,888,645**	**5,207,545**	**12,008,605**	**12,170,848**

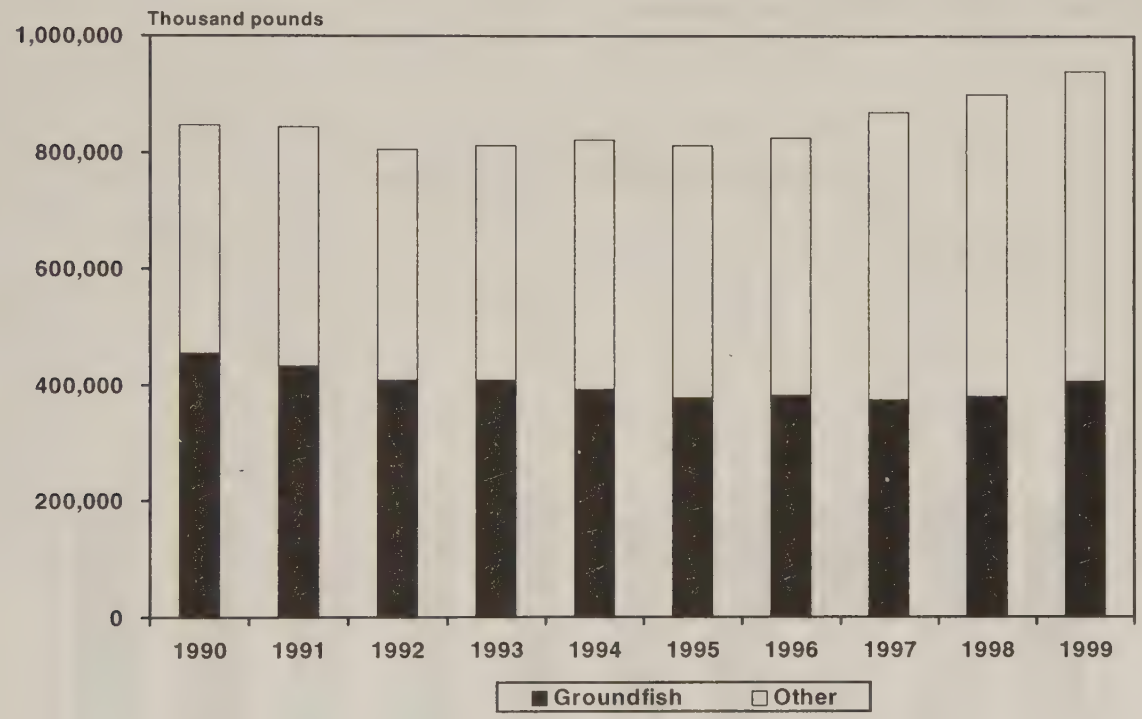
(1) Includes only quantity harvest for fish meal.
(2) Not available.
NOTE: Total landings shown in this table may not agree with landings reported in other tables due to rounding.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1990-99
(Edible weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	440,692	458,413	899,105	51,599	847,506
1991	472,668	440,018	912,686	69,086	843,600
1992	448,664	408,059	856,723	52,247	804,476
1993	420,169	440,354	860,523	48,847	811,676
1994	425,022	439,059	864,081	43,252	820,829
1995	385,293	477,483	862,776	50,785	811,991
1996	423,309	476,469	899,778	74,368	825,410
1997	409,652	514,805	924,457	55,014	869,443
1998	422,418	578,561	1,000,979	101,016	899,963
1999	369,260	654,301	1,023,561	83,557	940,004

(1) Includes fillets used to produce blocks.

U.S. Supply of Fillets and Steaks



U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1990-99
(Edible weight)

Year	U.S. production (1)	Imports	Total	Exports (2)	Total supply
	Thousand pounds				
1990	258,809	200,980	459,789	6,944	452,845
1991	264,323	202,409	466,732	34,442	432,290
1992	252,358	172,755	425,113	17,507	407,606
1993	233,755	186,516	420,271	12,242	408,029
1994	220,357	189,097	409,454	17,639	391,815
1995	216,699	184,845	401,544	24,606	376,938
1996	245,406	178,209	423,615	41,691	381,924
1997	220,403	176,125	396,528	23,367	373,161
1998	255,291	186,937	442,228	63,481	378,747
1999	218,970	224,944	443,914	37,474	406,440

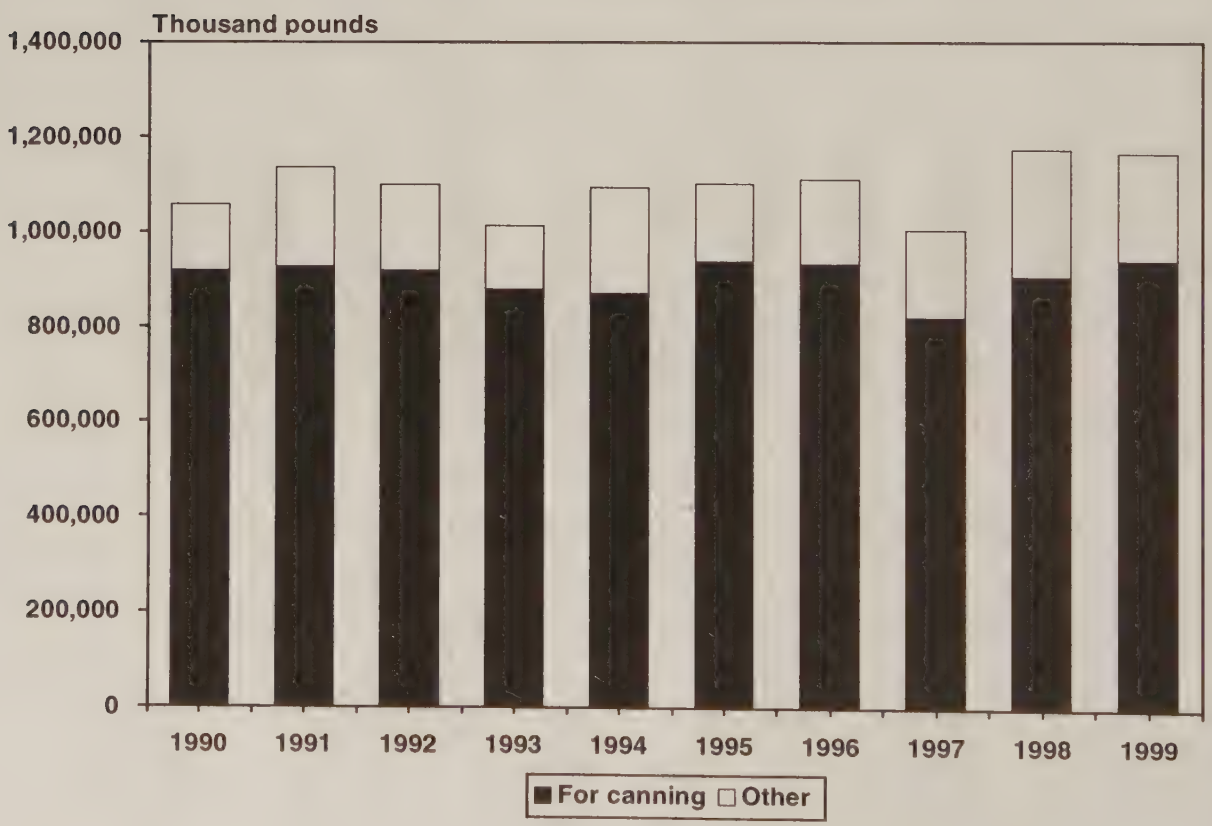
(1) Includes fillets used to produce blocks. Species include cod, cusk, haddock, hake, pollock, and ocean perch.
(2) Species include: cod 1990-99; pollock 1991-99

U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1990-99
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports total	Total supply
	For canning	Other	Total	For canning	Other	Total		
	Thousand pounds							
1990	391,954	119,955	511,909	526,496	37,826	564,322	19,773	1,056,458
1991	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,479
1992	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,047
1993	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,320
1994	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,781
1995	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,693
1996	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,395
1997	354,074	102,567	456,641	467,526	105,806	573,332	24,092	1,005,881
1998	318,144	161,305	479,449	590,568	137,852	728,420	34,026	1,173,843
1999	368,716	111,658	480,374	571,976	135,966	707,942	22,018	1,166,298

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.
(2) Includes landings in American Samoa of foreign caught fish.

U.S. Supply of Fresh and Frozen Tuna



U.S. SUPPLY OF CANNED SARDINES, 1990-99
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	13,240	56,963	70,203	9,048	61,155
1991	13,986	48,515	62,501	10,668	51,833
1992	17,437	36,511	53,948	12,690	41,258
1993	14,354	39,111	53,465	12,275	41,190
1994	15,560	43,942	59,502	11,010	48,492
1995	13,567	42,280	55,847	11,773	44,074
1996	17,672	40,926	58,598	12,207	46,391
1997	15,976	42,771	58,747	9,321	49,426
1998	11,842	44,328	56,170	6,314	49,856
1999	12,017	48,722	60,739	3,803	56,936

U.S. SUPPLY OF CANNED SALMON, 1990-99
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	196,383	1,378	197,761	49,546	148,215
1991	195,744	983	196,727	66,134	130,593
1992	149,453	974	150,427	77,895	72,532
1993	198,344	428	198,772	84,610	114,162
1994	206,841	1,093	207,934	90,915	117,019
1995	243,568	1,202	244,770	98,197	146,573
1996	197,163	2,266	199,429	95,530	103,899
1997	162,106	1,228	163,334	81,621	81,713
1998	158,798	1,323	160,121	77,450	82,671
1999	234,155	2,229	236,384	113,726	122,658

U.S. SUPPLY OF CANNED TUNA, 1990-99
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	580,601	284,593	865,194	9,039	856,155
1991	592,786	351,744	944,530	11,310	933,220
1992	608,981	323,413	932,394	10,141	922,253
1993	618,743	224,419	843,162	8,534	834,628
1994	609,514	249,043	858,557	8,391	850,166
1995	666,581	215,365	881,946	7,385	874,561
1996	675,816	193,037	868,853	9,866	858,987
1997	627,032	212,171	839,203	9,967	829,236
1998	680,860	240,409	921,269	9,319	911,950
1999	669,079	334,537	1,003,616	7,945	995,671

U.S. SUPPLY OF KING CRAB, 1990-99
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
	Thousand pounds				
1990	33,917	4,925	38,842	(2) 19,486	19,356
1991	28,140	7,087	35,227	15,320	19,907
1992	19,056	11,958	31,014	16,241	14,773
1993	24,732	7,395	32,127	24,372	7,755
1994	11,960	15,035	26,995	15,013	11,982
1995	14,673	18,360	33,033	11,847	21,186
1996	21,000	26,533	47,533	17,650	29,883
1997	18,027	39,666	57,693	12,516	45,177
1998	24,122	51,655	75,777	13,575	62,202
1999	16,920	46,922	63,842	11,483	52,359

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33
(2) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1990-99
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1990	213,395	10,772	224167	(3) 187,069	37,098
1991	357,122	19,091	376,213	(3) 316,162	60,051
1992	350,039	18,882	368,921	281,214	87,707
1993	255,733	31,224	286,957	220,618	66,339
1994	159,574	27,446	187,020	147,006	40,014
1995	80,817	20,969	101,786	59,805	41,981
1996	67,867	28,336	96,203	50,509	45,694
1997	118,898	41,959	160,857	50,604	110,253
1998	251,831	60,166	311,997	58,366	253,631
1999	185,162	110,041	295,203	78,918	216,285

(1) Converted to round(live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00.
(2) Domestic merchandise converted to round(live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports.
(3) Estimated, based on available foreign import data.

U.S. SUPPLY OF CANNED CRABMEAT, 1990-99
(Canned weight)

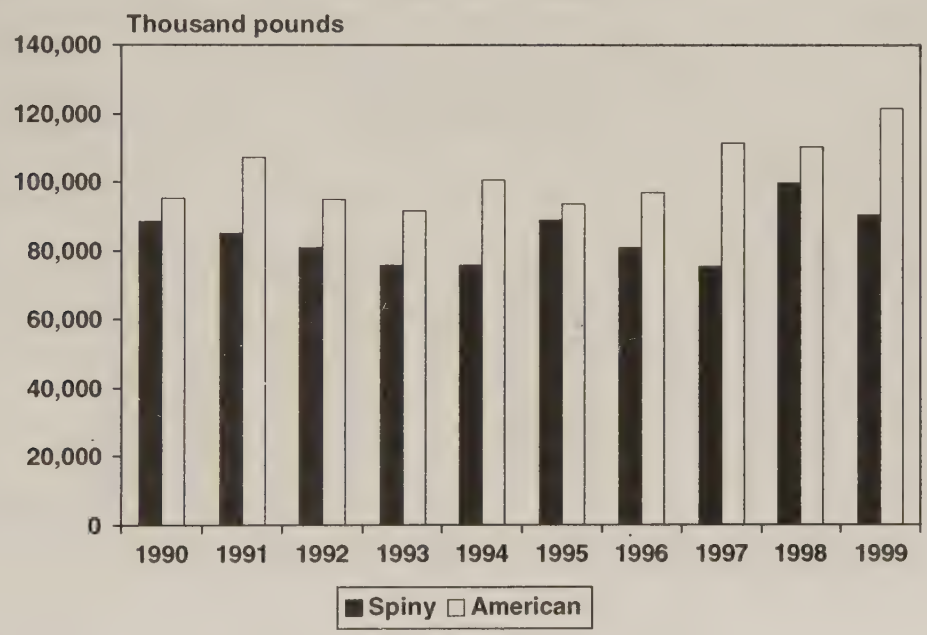
Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	695	8,563	9,258	434	8,824
1991	77	11,385	11,462	525	10,937
1992	99	9,577	9,676	789	8,887
1993	70	9,817	9,887	668	9,219
1994	17	9,852	9,869	511	9,358
1995	65	12,441	12,506	276	12,230
1996	93	12,773	12,866	337	12,529
1997	83	15,871	15,954	608	15,346
1998	67	22,020	22,087	558	21,529
1999	761	27,707	28,468	1,329	27,139

U.S. SUPPLY OF AMERICAN LOBSTERS,1990-99
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1990	61,017	49,592	110,609	15,274	95,335
1991	63,337	65,381	128,718	21,485	107,233
1992	55,841	59,335	115,176	20,332	94,844
1993	56,513	55,570	112,083	20,354	91,729
1994	66,416	65,949	132,365	31,646	100,719
1995	66,406	62,923	129,329	35,587	93,742
1996	71,641	65,379	137,020	39,919	97,101
1997	83,921	73,033	156,954	45,262	111,692
1998	79,642	73,601	153,243	42,874	110,369
1999	87,469	90,830	178,299	56,755	121,544

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobsters and were converted to round weight by using these conversion factors: 1.00, whole; 4.50, meat, and 4.64, canned.
(2) Domestic exports conversion to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors.

U.S. Supply of Lobster



U.S. SUPPLY OF SPINY LOBSTERS,1990-99
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1990	7,120	88,426	95,546	6,948	88,598
1991	7,096	81,332	88,428	3,388	85,040
1992	4,872	77,848	82,720	2,001	80,719
1993	6,076	70,884	76,960	1,306	75,654
1994	8,104	68,787	76,891	1,304	75,587
1995	7,123	86,900	94,023	5,035	88,988
1996	8,308	75,595	83,903	3,033	80,870
1997	7,240	74,120	81,360	5,842	75,518
1998	5,935	95,801	101,736	1,802	99,934
1999	6,692	86,240	92,932	2,346	90,586

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned.
(2) Domestic exports converted to round (live) weight by using: 1.00, whole; 3.00, tails; 4.00, other; and 4.50, canned. Foreign exports converted using import factors.

U.S. SUPPLY OF CLAMS, 1990-99
(Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
	Thousand pounds				
1990	139,198	15,830	155,028	2,961	152,067
1991	134,243	12,291	146,534	2,948	143,586
1992	142,449	14,262	156,711	1,662	155,049
1993	147,752	9,579	157,331	1,809	155,522
1994	131,427	15,507	146,934	2,617	144,317
1995	134,224	12,645	146,869	2,853	144,016
1996	123,239	14,340	137,579	3,448	134,131
1997	114,180	13,184	127,364	3,651	123,713
1998	107,959	15,666	123,625	4,318	119,307
1999	112,230	16,315	128,545	3,898	124,647

(1) For species breakout see table on page 1.
(2) Imports and exports were converted to meat weight by using these conversion factors: 0.40 in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1990-99
(Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
	Thousand pounds				
1990	29,193	27,546	56,739	1,004	55,735
1991	31,859	30,547	62,406	739	61,667
1992	36,156	26,529	62,685	797	61,888
1993	33,575	28,244	61,819	1,131	60,688
1994	38,086	24,694	62,780	1,988	60,792
1995	40,380	24,200	64,580	1,908	62,672
1996	38,007	21,708	59,715	1,648	58,067
1997	39,652	20,533	60,185	2,191	57,994
1998	33,538	29,575	63,113	1,877	61,236
1999	26,983	30,012	56,995	2,047	54,948

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other.

U.S. SUPPLY OF SCALLOPS, 1990-99
(Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	41,591	39,839	81,430	7,099	74,331
1991	39,740	29,528	69,268	7,083	62,185
1992	33,884	38,682	72,566	3,589	68,977
1993	18,638	51,973	70,611	4,147	66,464
1994	25,469	56,676	82,145	5,990	76,155
1995	19,526	48,331	67,857	5,926	61,931
1996	18,197	58,686	76,883	6,191	70,692
1997	15,474	60,146	75,620	9,861	65,759
1998	13,166	52,445	65,611	7,306	58,305
1999	27,178	44,079	71,257	6,982	64,275

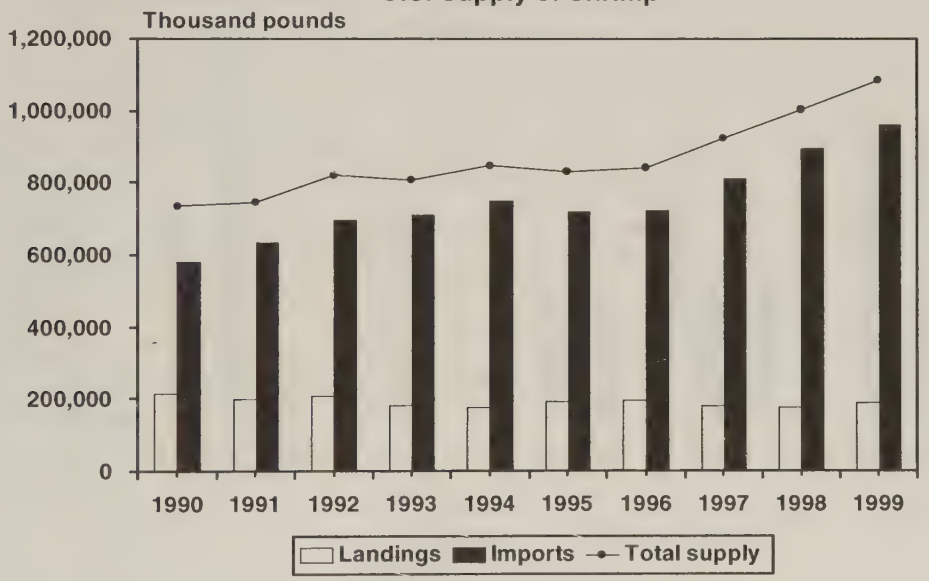
(1) For species breakout see table on page 1.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1990-99
(Heads-off weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
	Thousand pounds				
1990	213,899	579,427	793,326	59,683	733,643
1991	198,115	632,775	830,890	87,186	743,704
1992	207,086	694,254	901,340	81,604	819,736
1993	180,687	708,683	889,370	81,447	807,923
1994	174,969	749,993	924,962	77,755	847,207
1995	190,208	719,463	909,671	77,677	831,994
1996	195,902	720,852	916,754	75,130	841,624
1997	179,084	810,696	989,780	66,674	923,106
1998	173,304	893,578	1,066,882	65,302	1,001,580
1999	189,112	959,915	1,149,027	65,427	1,083,600

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf 0.629; and New England, Pacific and other, 0.57.
(2) Imports were converted to heads-off weight by using these conversion factors: breaded,0.63; shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.
(3) Exports were converted to heads-off weight by using these conversion factors: domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.

U.S. Supply of Shrimp



U.S. SUPPLY OF CANNED SHRIMP, 1990-99
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	710	9,735	10,445	2,670	7,775
1991	632	9,361	9,993	2,352	7,641
1992	640	9,273	9,913	1,931	7,982
1993	658	8,170	8,828	2,557	6,271
1994	463	6,314	6,777	1,841	4,936
1995	912	6,570	7,482	3,250	4,232
1996	819	3,563	4,382	2,665	1,717
1997	1,168	3,620	4,788	1,470	3,318
1998	2,253	3,406	5,659	1,660	3,999
1999	1,955	2,945	4,900	2,355	2,545

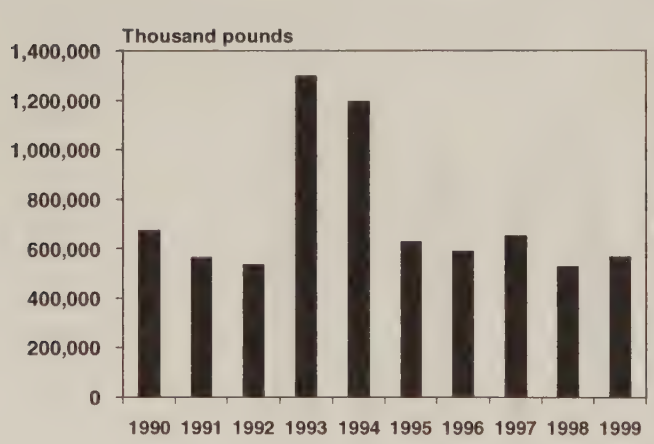
Supply of Fishery Products

U.S. SUPPLY OF FISH MEAL, 1990-99
(Product weight)

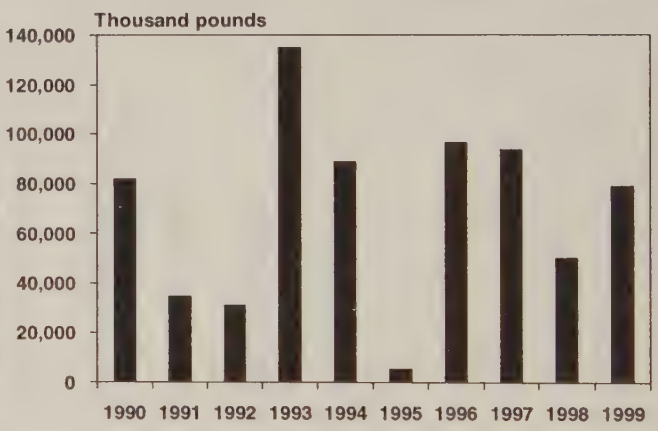
Year	U.S. production (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	577,498	239,426	816,924	141,888	675,036
1991	612,716	158,916	771,632	206,320	565,312
1992	644,512	150,911	795,423	258,511	536,912
1993	750,744	760,664	1,511,408	212,859	1,298,549
1994	807,833	548,288	1,356,121	159,937	1,196,184
1995	667,240	139,101	806,341	176,981	629,360
1996	643,124	135,561	778,685	186,412	592,273
1997	724,668	142,049	866,717	216,289	650,428
1998	613,434	125,404	738,838	210,658	528,180
1999	686,250	73,069	759,319	192,512	566,807

(1) Includes shellfish meal.

U.S. Supply of Fish Meal



U.S. Supply of Fish Oils



U.S. SUPPLY OF FISH OILS, 1990-99
(Product weight)

Year	U.S. production	Imports	Total	Exports	Total supply
	Thousand pounds				
1990	281,949	36,702	318,651	236,589	82,062
1991	267,345	21,828	289,173	254,525	34,648
1992	184,725	23,772	208,497	177,444	31,053
1993	293,452	26,052	319,504	184,488	135,016
1994	291,189	40,642	331,831	242,788	89,043
1995	241,941	23,913	265,854	260,394	5,460
1996	248,399	35,622	284,021	187,294	96,727
1997	283,379	25,622	309,001	215,255	93,746
1998	222,697	24,213	246,910	196,664	50,246
1999	286,182	25,677	311,859	232,546	79,313

Per Capita Consumption

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight, and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 15.3 pounds (edible meat) in 1999. This total was 0.4 pounds more than the 14.9 pounds consumed in 1998. Per capita consumption of fresh and frozen products was 10.4 pounds, 0.2 pound more than 1998.

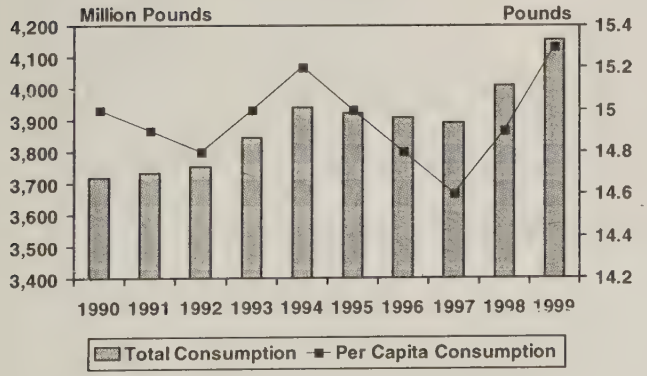
Fresh and frozen finfish accounted for 5.9 pounds while fresh and frozen shellfish consumption was 4.5 pounds per capita. The fresh and frozen finfish includes approximately 1.1 pound of farm raised catfish.

Consumption of canned fishery products was 4.6 pounds per capita in 1999, 0.2 pounds more than in 1998. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 66 percent of the consumption.

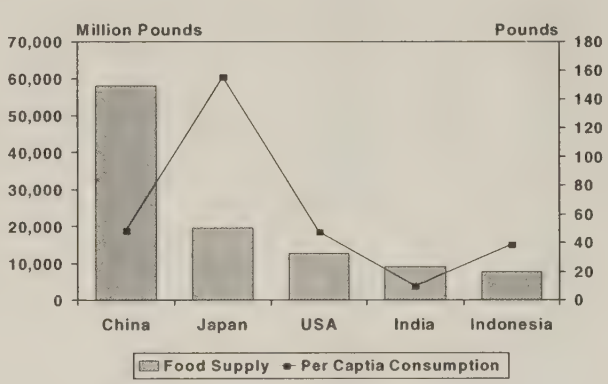
PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1999 was 63.7 pounds, up 1.2 pounds compared with 1998.

WORLD CONSUMPTION. The FAO calculation for apparent consumption is also based on a disappearance model. The three year average considers, on a round weight equivalent basis, a country's landings, imports, and exports. The 1995-97 data indicates that the United States ranks as the third largest consumer of seafood in the world.

U.S. Consumption 1990-1999
(Edible Meat Weight)



Fish and Fishery Products
Apparent Consumption Average 1995-1997
(Live Weight Equivalent)



Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1910-1999

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	-------Pounds, edible meat-------			
1910	92.2	4.5	2.8	3.9	11.2
1920	106.5	6.3	3.2	2.3	11.8
1930	122.9	5.8	3.4	1.0	10.2
1940	132.1	5.7	4.6	0.7	11.0
1950	150.8	6.3	4.9	0.6	11.8
1960	178.1	5.7	4.0	0.6	10.3
1970	201.9	6.9	4.5	0.4	11.8
1980	225.6	7.9	4.3	0.3	12.5
1981	227.8	7.8	4.6	0.3	12.7
1982	230.0	7.9	4.3	0.3	12.5
1983	232.1	8.4	4.7	0.3	13.4
1984	234.1	9.0	4.9	0.3	14.2
1985	236.2	9.8	5.0	0.3	15.1
1986	238.4	9.8	5.4	0.3	15.5
1987	240.6	10.7	5.2	0.3	16.2
1988	242.8	10.0	4.9	0.3	15.2
1989	245.1	10.2	5.1	0.3	15.6
1990	247.8	9.6	5.1	0.3	15.0
1991	250.5	9.7	4.9	0.3	14.9
1992	253.5	9.9	4.6	0.3	14.8
1993	256.4	10.2	4.5	0.3	15.0
1994	259.2	10.4	4.5	0.3	15.2
1995	261.4	10.0	4.7	0.3	15.0
1996	264.0	10.0	4.5	0.3	14.8
1997	266.4	9.9	4.4	0.3	14.6
1998	269.1	10.2	4.4	0.3	14.9
1999	271.5	10.4	4.6	0.3	15.3

(1) Resident population for 1910 and 1920 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption for 1910 and 1920 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

(3) Canned fish consumption for 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 and 1920 is estimated.

*Record years: Fresh and Frozen--10.7 lb, 1987; Canned--5.8, 1936; Cured--4.0, 1909; and Total--16.2 lb, 1987.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-99

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
	Pounds					
1980	0.5	0.3	3.0	0.4	0.1	4.3
1981	0.5	0.4	3.0	0.4	0.3	4.6
1982	0.5	0.3	2.8	0.4	0.3	4.3
1983	0.5	0.2	3.2	0.4	0.4	4.7
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5	0.5	5.4
1987	0.4	0.3	3.5	0.5	0.5	5.2
1988	0.3	0.3	3.6	0.4	0.3	4.9
1989	0.3	0.3	3.9	0.4	0.2	5.1
1990	0.4	0.3	3.7	0.3	0.4	5.1
1991	0.5	0.2	3.6	0.4	0.2	4.9
1992	0.5	0.2	3.5	0.3	0.1	4.6
1993	0.4	0.2	3.5	0.3	0.1	4.5
1994	0.4	0.2	3.3	0.3	0.3	4.5
1995	0.5	0.2	3.4	0.3	0.3	4.7
1996	0.5	0.2	3.2	0.3	0.3	4.5
1997	0.4	0.2	3.1	0.3	0.4	4.4
1998	0.3	0.2	3.4	0.3	0.2	4.4
1999	0.3	0.2	3.4	0.4	0.3	4.6

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-99

Year	Fillets and steaks (1)	Sticks and portions	Shrimp all preparation
	Pounds (2)		
1980	2.4	2.0	1.4
1981	2.4	1.8	1.5
1982	2.5	1.7	1.5
1983	2.7	1.8	1.7
1984	3.0	1.8	1.9
1985	3.2	1.8	2.0
1986	3.4	1.8	2.2
1987	* 3.6	1.7	2.4
1988	3.2	1.5	2.4
1989	3.1	1.5	2.3
1990	3.1	1.5	2.2
1991	3.0	1.2	2.4
1992	2.9	0.9	2.5
1993	2.9	1.0	2.5
1994	3.1	0.9	2.6
1995	2.9	1.2	2.5
1996	3.0	1.0	2.5
1997	3.0	1.0	2.7
1998	3.2	0.9	2.8
1999	3.2	1.0	* 3.0

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.

(2) Product weight of fillets and steaks, sticks and portions; edible (meat) weight of shrimp.

*Record

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	22.2	48.9
Greenland	84.1	185.4
St. Pierre and Miquelon	68.6	151.2
United States	20.9	46.1
Caribbean:		
Antigua	23.9	52.7
Aruba	7.6	16.8
Bahamas	22.0	48.5
Barbados	30.4	67.0
Bermuda	37.9	83.6
Cayman Islands	13.3	29.3
Cuba	12.4	27.3
Dominica	29.6	65.3
Dominican Republic	8.1	17.9
Grenada	23.8	52.5
Guadeloupe	40.5	89.3
Haiti	2.6	5.7
Jamaica	15.4	34.0
Martinique	37.6	82.9
Netherland Antilles	18.8	41.4
Saint Lucia	22.0	48.5
St. Vincent	15.3	33.7
Trinidad-Tobago	12.2	26.9
Turks & Caicos	40.2	88.6
Latin America:		
Argentina	11.1	24.5
Belize	6.7	14.8
Bolivia	1.4	3.1
Brazil	6.9	15.2
Chile	22.3	49.2
Colombia	4.5	9.9
Costa Rica	5.2	11.5
Ecuador	7.2	15.9
El Salvador	2.5	5.5
French Guiana	32.5	71.6
Guatemala	1.1	2.4
Guyana	55.3	121.9
Honduras	3.0	6.6
Mexico	10.5	23.1
Nicaragua	1.3	2.9
Panama	14.6	32.2
Paraguay	5.1	11.2
Peru	25.4	56.0
Suriname	24.4	53.8
Uruguay	7.1	15.7
Venezuela	20.1	44.3
Europe:		
Albania	1.3	2.9
Armenia	1.2	2.6
Austria	10.6	23.4
Azerbaijan	1.2	2.6
Belarus	1.0	2.2
Belgium and Luxembourg	19.6	43.2

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
Europe - Continued:		
Bosnia-Hercegovina	1.2	2.6
Bulgaria	2.0	4.4
Croatia	3.6	7.9
Czech Republic	8.6	19.0
Denmark	23.6	52.0
Estonia	20.4	45.0
Faeroe Island	86.1	189.8
Finland	32.8	72.3
France	28.4	62.6
Georgia	1.6	3.5
Germany	12.4	27.3
Greece	25.4	56.0
Hungary	4.0	8.8
Iceland	91.1	200.8
Ireland	16.8	37.0
Italy	22.0	48.5
Kazakhstan	2.6	5.7
Kyrgyzstan	0.4	0.9
Latvia	21.8	48.1
Lithuania	16.9	37.3
Macedonia	4.3	9.5
Malta	27.4	60.4
Moldova	1.3	2.9
Netherlands	15.4	34.0
Norway	50.1	110.5
Poland	10.5	23.1
Portugal	59.8	131.8
Romania	2.3	5.1
Russian Federation	19.5	43.0
Slovakia	7.1	15.7
Slovenia	6.9	15.2
Spain	40.5	89.3
Sweden	26.1	57.5
Switzerland	13.8	30.4
Tajikistan	0.1	0.2
Turkmenistan	2.2	4.9
Ukraine	6.8	15.0
United Kingdom	20.1	44.3
Uzbekistan	0.5	1.1
Yugoslavia	2.1	4.6
Near East:		
Afghanistan	0.1	0.2
Bahrain	16.2	35.7
Cyprus	21.0	46.3
Egypt	9.3	20.5
Iran	5.0	11.0
Iraq	1.6	3.5
Israel	22.6	49.8
Jordan	4.3	9.5
Kuwait	12.5	27.6
Lebanon	6.0	13.2
Libya	6.5	14.3
Oman	24.0	52.9
Qatar	12.3	27.1
Saudi Arabia	6.5	14.3
Sudan	1.7	3.7
Syria	1.0	2.2
Turkey	8.3	18.3
United Arab Emirates	27.4	60.4
Yemen Republic	7.0	15.4

See note at end of table.

(Continued on next page)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
Far East:		
Bangladesh	10.1	22.3
Brunei	28.6	63.1
Burma	16.9	37.3
Cambodia	9.1	20.1
China	24.1	53.1
Hong Kong	56.6	124.8
India	4.6	10.1
Indonesia	17.9	39.5
Japan	69.0	152.1
Laos	8.9	19.6
Macao	35.7	78.7
Maldives	169.8	374.3
Malaysia	55.7	60.6
Mongolia	0.1	0.2
Nepal	1.0	2.2
North Korea	16.9	37.3
Pakistan	2.0	4.4
Philippines	31.0	68.3
Singapore	32.4	71.4
South Korea	51.2	112.9
Sri Lanka	18.8	41.4
Taiwan	37.3	82.2
Thailand	32.4	71.4
Vietnam	16.9	37.3
Africa:		
Algeria	3.7	8.2
Angola	7.5	16.5
Benin	9.2	20.3
Botswana	5.0	11.0
Burkina	1.2	2.6
Burundi	2.5	5.5
Cameroon	9.8	21.6
Cape Verde	24.9	54.9
Central African Rep	4.0	8.8
Chad	6.8	15.0
Comoros	21.7	47.8
Congo (Brazzaville)	25.9	57.1
Congo (Kinshasa)	5.9	13.0
Djibouti	2.0	4.4
Equatorial Guinea	20.1	44.3
Eritrea	0.8	1.8
Ethiopia	0.1	0.2
Gabon	47.5	104.7
Gambia	22.4	49.4
Ghana	21.8	48.1
Guinea	14.1	31.1
Guinea-Bissau	3.3	7.3
Ivory Coast	11.6	25.6
Kenya	5.3	11.7
Lesotho	0.0	0.0

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa - Continued:		
Liberia	5.0	11.0
Madagascar	6.4	14.1
Malawi	5.9	13.0
Mali	11.3	24.9
Mauritania	10.1	22.3
Mauritius	21.8	48.1
Morocco	7.4	16.3
Mozambique	2.0	4.4
Namibia	12.1	26.7
Niger	0.7	1.5
Nigeria	6.3	13.9
Reunion	19.3	42.5
Rwanda	0.6	1.3
Sao Tome	22.4	49.4
Senegal	32.5	71.6
Seychelles	64.9	143.1
Sierra Leone	12.4	27.3
Somalia	1.4	3.1
South Africa	7.7	17.0
St. Helena	68.1	150.1
Swaziland	0.2	0.4
Tanzania	10.7	23.6
Togo	15.7	34.6
Tunisia	9.3	20.5
Uganda	9.5	20.9
Zambia	8.4	18.5
Zimbabwe	3.5	7.7
Oceania:		
Australia	19.1	42.1
Cook Island	54.1	119.3
Fiji	32.7	72.1
French Polynesia	63.4	139.8
Kiribati	74.2	163.6
Marshall Islands	6.6	14.6
Micronesia	40.8	89.9
Nauru	37.9	83.6
New Caledonia	22.1	48.7
New Zealand	22.4	49.4
Niue	56.3	124.1
Palau	102.4	225.8
Papua New Guinea	14.8	32.6
Solomon Islands	40.6	89.5
Tokelau	152.5	336.2
Tonga	33.4	73.6
Tuvalu	20.0	44.1
Vanuatu	26.1	57.5
Wallis and Futuna Islands	12.5	27.6
Western Samoa	55.5	122.4
World	**15.7**	**34.6**

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.
Source:--Food and Agriculture Organization of the United Nations (FAO)

Per Capita Consumption

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the beginning or ending stocks, defense purchases, or exported.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-99 (1)

Year	Total population including armed forces overseas July 1	U.S. supply	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	Pounds		
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
1980	227.7	11,357	28.5	21.4	49.9
1981	230.0	11,353	26.0	23.4	49.4
1982	232.2	12,011	27.4	24.3	51.7
1983	234.3	12,352	27.5	25.2	52.7
1984	236.3	12,552	27.3	25.8	53.1
1985	238.5	15,150	26.2	37.3	63.5
1986	240.7	14,368	25.1	34.6	59.7
1987	242.8	15,744	28.4	36.4	64.8
1988	245.0	14,628	29.3	30.4	59.7
1989	247.3	15,485	34.2	28.4	62.6
1990	249.9	16,349	37.6	27.8	65.4
1991	252.7	16,363	37.5	27.3	64.8
1992	255.5	16,106	37.7	25.3	63.0
1993	258.2	20,334	40.6	38.2	78.8
1994	260.7	19,309	40.1	34.0	74.1
1995	263.0	16,484	37.2	25.5	62.7
1996	265.3	16,474	36.1	26.0	62.1
1997	268.2	17,132	36.7	27.2	63.9
1998	270.6	16,897	34.0	28.5	62.5
1999	272.9	17,378	34.2	29.5	63.7

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

SUMMARY OF 1999 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector or type of activity	Purchase of fishery inputs	Mark-up of fishery inputs	Total mark-up within sector	Value added as percent of total mark-up	Value added within sector	Value of sales by sector	Value added contri-bution	Offshore fleet & exported fishery products
	Thousand Dollars	Percentage of Fishery Inputs	Thousand Dollars	Percentage	Thousand Dollars	Thousand Dollars	Percentage of GNP Con-tribution	Thousand Dollars
Domestic Harvest:								
Edible	-	100.0	$3,298,468	63.3	$2,087,536	$3,298,468	7.7	-
Industrial	-	100.0	$113,082	59.6	$67,410	$113,082	0.2	-
Harvest not landed in U.S	-	100.0	$134,908	70.6	$95,308	$134,908	0.4	$134,908
Imports, Unprocessed	$3,744,608	-	-	-	-	$3,744,608	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	$917,693
Primary Wholesale and Processing	$6,238,465	93.5	$5,834,232	60.4	$3,525,934	$12,072,698	13.0	-
Imports, Processed	$5,405,276	-	-	-	-	$5,405,276	-	-
Exports, Processed	-	-	-	-	-	-	-	$1,964,962
Secondary Wholesale and Processing:								
Edible	$15,312,295	62.7	$9,602,356	28.0	$2,692,840	$24,914,651	9.9	-
Industrial	$200,716	62.7	$125,869	28.0	$35,298	$326,586	0.1	-
Retail Trade from Food Service	$12,605,266	182.4	$22,992,775	69.8	$16,040,427	$35,598,041	59.0	-
Retail Trade from Stores	$12,309,384	33.4	$4,114,077	64.2	$2,642,535	$16,423,462	9.7	-
TOTAL U.S. VALUE ADDED ACTIVITY:					**$27,187,340**		**100.0**	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						**$52,348,088**		

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.

Note.-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the products. Gross National Product (GNP) is equal to the sum the value added of all economic entities in the economy. Value added within a sector respresents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

Prices

The Exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

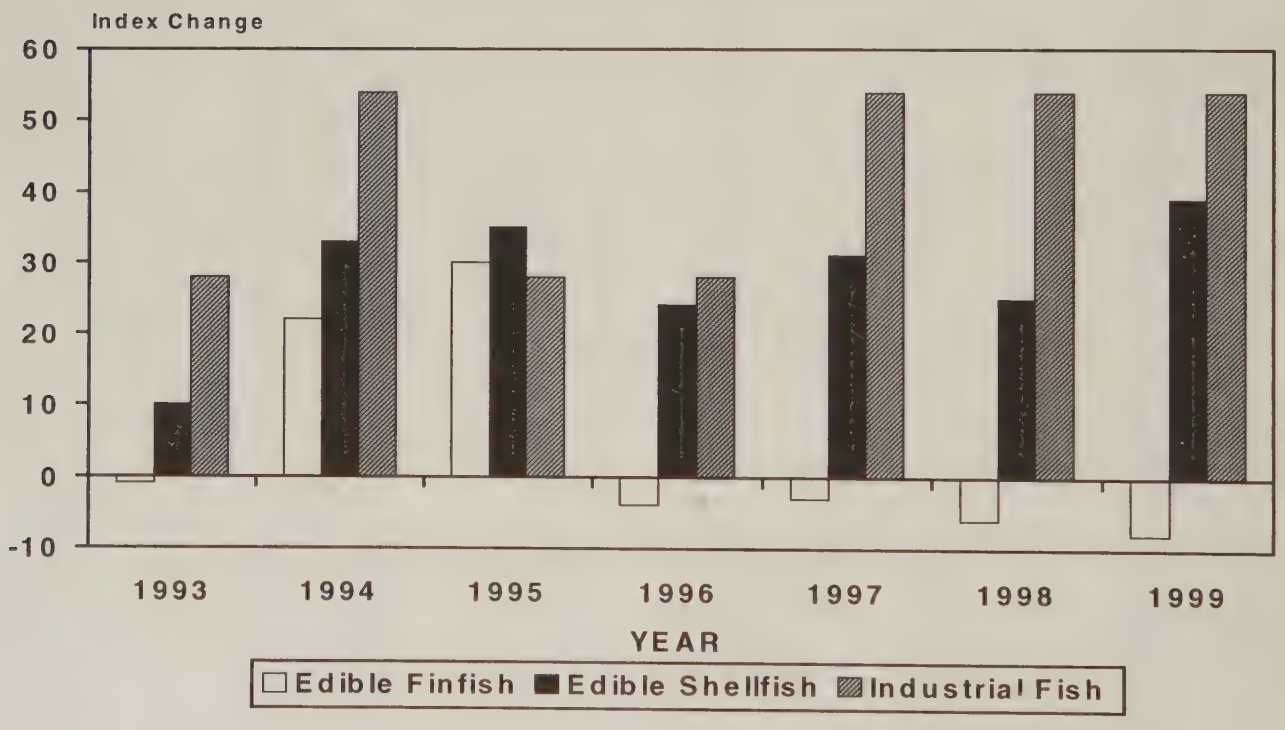
The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 1 thru 4. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price} \times \text{1982 quantity})}{\text{1982 Annual value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for $0.75 a pound in 1986 and a $1.00 a pound in 1982 would have an index of 75 in 1986. In 1999, if the price of the same species increased to $1.07, the index in 1999 would be 107.

Percent Changes in the Exvessel Price Index, 1993-1999

(Change Relative to Base Year = 1982)



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1993-99
(1982=100)

Species	1993	1994	1995	1996	1997	1998	1999
Groundfish, et al:							
Cod	105	92	77	76	84	68	68
Haddock	277	287	277	239	218	253	264
Pollock:							
Atlantic	299	365	412	311	255	294	372
Alaska	194	212	161	160	170	124	124
Flounders	61	80	96	91	63	67	74
Total groundfish, et al.	**115**	**125**	**125**	**115**	**100**	**99**	**106**
Halibut	115	171	173	199	195	165	180
Sea herring	63	86	126	137	63	46	57
Salmon:							
Chinook	81	76	76	63	70	64	92
Chum	95	58	66	36	49	39	40
Pink	59	73	67	38	52	61	61
Sockeye	80	101	100	94	103	131	87
Coho	74	76	54	48	70	54	96
Total salmon	**78**	**85**	**82**	**69**	**81**	**90**	**81**
Swordfish	92	107	104	103	91	70	76
Tuna:							
Albacore	132	125	120	130	124	99	125
Bluefin	766	666	954	229	353	295	736
Skipjack	85	127	83	82	93	79	63
Yellowfin	112	205	283	113	126	100	88
Total tuna	**117**	**181**	**212**	**105**	**118**	**96**	**94**
Total edible finfish	**97**	**122**	**130**	**96**	**97**	**94**	**92**
Clams:							
Hard	113	105	113	148	163	174	160
Ocean Quahog	128	129	136	142	145	148	154
Soft	233	248	250	205	236	238	255
Surf	88	118	118	115	116	103	99
Total clams	**126**	**133**	**138**	**147**	**159**	**161**	**157**
Crabs:							
Blue	201	260	284	266	271	271	303
Dungeness	95	145	176	143	210	192	213
King	127	146	104	100	94	80	175
Snow	78	144	237	130	76	54	85
Total crabs	**123**	**166**	**182**	**144**	**135**	**121**	**178**
American lobster	117	128	141	147	138	138	160
Oysters	183	175	179	214	199	188	191
Scallops:							
Bay	161	49	55	69	111	90	133
Calico	(1)	94	124	-	217	(1)	93
Sea	159	138	138	153	179	166	166
Total scallops	**141**	**126**	**131**	**129**	**178**	**141**	**155**
Shrimp:							
Gulf and South Atlantic	80	110	99	88	106	94	97
Other	128	142	179	148	134	331	152
Total shrimp	**82**	**111**	**103**	**91**	**107**	**105**	**100**
Total edible shellfish	**110**	**138**	**135**	**124**	**133**	**125**	**139**
Total edible fish and shellfish	**104**	**131**	**133**	**111**	**117**	**111**	**118**
Industrial fish, Menhaden	128	154	128	128	154	154	154
All fish and shellfish	**105**	**132**	**132**	**112**	**119**	**113**	**119**

(1) Confidential data.

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1997 - 1998

Area and State	1997			1998		
	Vessels	Boats	Total	Vessels	Boats	Total
Northeast:						
Connecticut	225	377	602	245	318	563
Delaware	175	NA	175	175	NA	175
Maine	1,733	5,828	7,561	1,642	5,799	7,441
Maryland (3)	33	NA	33	33	NA	33
Massachusetts	737	4,510	5,247	715	4,500	5,215
New Hampshire	128	483	611	115	461	576
New Jersey	420	1,181	1,601	387	1,147	1,534
New York (4)	689	2,541	3,230	689	2,931	3,620
Rhode Island	308	2,469	2,777	312	2,401	2,713
Virginia (3)	122	NA	122	122	NA	122
South Atlantic and Gulf:						
North Carolina	835	NA	835	891	NA	891
South Carolina	654	NA	654	569	NA	569
Georgia	351	NA	351	350	NA	350
Florida	2,437	6,648	9,085	2,384	6,157	8,541
Alabama	359	1,320	1,679	398	1,338	1,736
Mississippi	591	856	1,447	454	688	1,142
Louisiana	2,650	10,987	13,637	2,535	11,637	14,172
Texas	NA	NA	NA	NA	NA	NA
West Coast:						
Alaska	7,098	9,344	16,442	6,910	9,049	15,959
Washington	1,070	585	1,655	904	428	1,332
Oregon	732	328	1,060	668	296	964
California	1,567	1,421	2,988	1,387	1,179	2,566
Hawaii	2,833	NA	2,833	2,855	NA	2,855
Great Lakes (5)						
Illinois	5	NA	5	5	NA	5
Indiana	NA	NA	NA	NA	NA	NA
Michigan	61	75	136	61	74	135
Minnesota	1	23	24	1	22	23
New York	1	NA	1	2	NA	2
Ohio	38	17	55	40	19	59
Pennsylvania	2	1	3	2	1	3
Wisconsin	97	44	141	89	16	105

(1) Vessels are documented craft greater than 5 net registered tons.
(2) Boats are craft less than 5 net registered tons.
(3) Only Federal collected data are available. Inshore data not available.
(4) Excludes vessels and boats in the Great Lakes.
(5) Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the State; therefore, may not be an accurate total. Tribal data are not included in this table.

NA -- Data not available or provided separately.

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1998

Area and State	Processing		Wholesale (1)		Total	
	Plants	Employment	Plants	Employment	Plants	Employment
	Number					
New England:						
Maine	51	1,703	227	1,625	278	3,328
New Hampshire	9	390	27	171	36	561
Massachusetts	68	2,563	323	2,554	391	5,117
Rhode Island	18	406	60	352	78	758
Connecticut	4	68	37	304	41	372
Total	**150**	**5,130**	**674**	**5,006**	**824**	**10,136**
Mid-Atlantic:						
New York	7	176	351	2,441	358	2,617
New Jersey	15	1,189	138	909	153	2,098
Pennsylvania	6	1,890	64	790	70	2,680
Delaware	(2)	(2)	(2)	(2)	(2)	(2)
District of Columbia	-	-	6	101	6	101
Maryland	31	982	88	717	119	1,699
Virginia	40	1,661	82	579	122	2,240
Total	**99**	**5,898**	**729**	**5,537**	**828**	**11,435**
South Atlantic:						
North Carolina	47	1,353	97	869	144	2,222
South Carolina	5	82	28	194	33	276
Georgia	8	1,259	58	586	66	1,845
Florida	108	3,142	374	2,984	482	6,126
Total	**168**	**5,836**	**557**	**4,633**	**725**	**10,469**
Gulf:						
Alabama	83	1,423	54	724	137	2,147
Mississippi	36	2,551	35	248	71	2,799
Louisiana	120	2,787	168	1,152	288	3,939
Texas	27	1,479	114	1,375	141	2,854
Total	**266**	**8,240**	**371**	**3,499**	**637**	**11,739**
Pacific:						
Alaska	193	8,940	205	353	398	9,293
Washington	88	3,659	213	1,689	301	5,348
Oregon	38	1,376	24	289	62	1,665
California	134	6,467	410	4,896	544	11,363
Total	**453**	**20,442**	**852**	**7,227**	**1,305**	**27,669**
Inland States, Total	**39**	**1,517**	**289**	**2,747**	**328**	**4,264**
Other Areas or States: (3), Total	**26**	**9,370**	**60**	**653**	**86**	**10,023**
Grand total	**1,201**	**56,433**	**3,532**	**29,302**	**4,733**	**85,735**

(1) Data are based on Standard Industrial Classification Code 5146, as reported by the Bureau of Labor Statistics.
(2) Included with Inland States for confidentiality reasons.
(3) Includes American Samoa, Hawaii, and Puerto Rico

The Magnuson-Stevens Fishery Conservation and Management Act

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles). The EEZ encompasses approximately 3.36 million square nautical miles.

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct directed fishing in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of directed foreign fishing effort in the EEZ.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 10,000 mt of Atlantic mackerel and 40,000 mt of Atlantic herring were available for joint venture fishing in 1999. NMFS continues to maintain certain regulations pertaining to foreign fishing should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1999, six Preliminary Fishery Management Plans (PMPs) were in effect, some of which have been amended since first being implemented.

The Atlantic swordfish, Atlantic sharks, and Atlantic tunas are managed under one FMP, while Atlantic billfish fisheries are managed by a second Secretarial plan under the Magnuson-Stevens Act. The Western Atlantic bluefin tuna fishery is managed under the Magnuson-Stevens Act and the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31,

1999 there were 40 FMPs in place, including, the two Secretarial FMPs for Atlantic highly migratory species. The 38 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1999.

Northeast Multispecies (**)

Atlantic Herring

Monkfish

Atlantic Bluefish (**)

Atlantic Coast Red Drum (**)

Atlantic Mackerel, Squid, and Butterfish (**)

Atlantic Salmon (**)

Atlantic Sea Scallops (**)

Atlantic Surf Clams and Ocean Quahogs (**)

Summer Flounder, Scup, and Black Sea Bass (**)

Spiny Dogfish

Gulf and South Atlantic Spiny Lobster (**)

Caribbean Reef Fish (**)

Gulf of Mexico Reef Fish (**)

Gulf of Mexico Corals (**)

South Atlantic Corals (**)

South Atlantic Golden Crab (**)

Caribbean Coral Reef Resources (**)

Gulf of Mexico Shrimp (**)

Gulf of Mexico Stone Crab (**)

Gulf of Mexico Red Drum (**)

Coastal Migratory Pelagics (**)

Caribbean Queen Conch (**)

Caribbean Spiny Lobster (**)

South Atlantic Snapper/Grouper (**)

South Atlantic Shrimp (**)

Coastal Pelagic Species (**)

King and Tanner Crab (**)

Commercial and Recreational Salmon

High Seas Salmon (**)

Pacific Coast Groundfish (**)

Gulf of Alaska Groundfish (**)

Bering Sea and Aleutian Islands Groundfish (**)

Alaska Scallops (**)

Western Pacific Crustaceans (**)

Western Pacific Precious Corals (**)

Western Pacific Bottomfish and Seamount Groundfish (**)

Western Pacific Pelagics (**)

In 1999, NMFS published 940 documents in the *Federal Register* that affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published included hearing, meeting, correction, and proposed and final rule documents.

The Magnuson-Stevens Fishery Conservation and Management Act

REGIONAL FISHERY MANAGEMENT COUNCILS

Council	Constituent States	Telephone Number	Executive Directors and Addresses
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	978-465-0492 FAX: 465-3116	Paul J. Howard 50 Water St. The Tannery -- Mill 2 Newburyport, MA 01950
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	David R. Keifer Federal Bldg., Rm. 2115 300 South New St. Dover, DE 19904
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	803-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana Mississippi, Alabama, and Florida)	843-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619
CARIBBEAN	(U.S. Virgin Islands and Commonwealth of Puerto Rico)	809-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Donald O. McIsaac 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Chris W. Oliver, Acting 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and Commonwealth of the Northern Mariana Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Suite 1400 Honolulu, HI 96813

OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 1999 (1)

Item	Loligo squid	Illex squid	Atlantic mackerel	Butterfish	Atlantic herring
	Metric tons, round weight				
Maximum OY	(2) 26,000	(2) 24,000	(3)	(2) 16,000	(4) 89,220
ABC	21,000	22,800	383,000	7,200	89,220
Initial OY	21,000	22,800	(5) 75,000	5,900	89,220
DAH	21,000	22,800	(6) 75,000	5,900	89,220
DAP	21,000	22,800	50,000	5,900	49,220
JVP	0	0	10,000	0	40,000
TALFF	0	0	0	0	0

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.
(2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.
(3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.
(4) Maximum OY based on the Fishery Management Plan for Atlantic Herring.
(5) Initial OY can increase during the year, but the total cannot exceed 383,000 metric tons.
(6) Including 15,000 metric tons of Atlantic mackerel recreational allocation.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.

UNITED STATES DEPARTMENT OF COMMERCE

14th and Constitution Ave., NW
Washington, DC 20230

MAIL ROUTING CODE		TELEPHONE NUMBER
--	**Secretary of Commerce** Norman Y. Mineta	202-482-2112
A	**Under Secretary for Oceans and Atmosphere** D. James Baker	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910

F	**Assistant Administrator for Fisheries --** Penelope D. Dalton	301-713-2239
	Deputy Assistant Administrator for Fisheries -- William T. Hogarth	301-713-2239
Fx1	**Staff Office for Industry and Trade --** Linda Chaves	301-713-2379
Fx2	**Staff Office for Intergovernmental and Recreational Fisheries --** Richard Schaefer	301-427-2401
Fx3	**Equal Employment Opportunity --** Natalie Huff	301-713-2252
F/SI	**Seafood Inspection Program --** Samuel W. McKeen	301-713-2351
F/EN	**Office of Law Enforcement --** Dale Jones	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/EN11	Enforcement Programs Branch	301-427-2300
F/HC	**Office of Habitat Conservation --** Gary Mayer, Acting	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174

(CONTINUED)

UNITED STATES DEPARTMENT OF COMMERCE

Silver Spring, Md. 20910

MAIL ROUTING CODE		TELEPHONE NUMBER
F/OMI	**Office of Operations, Management & Information --** Thomas Gary	301-713-2239
F/OMI1	Administrative & Budget Processes Division	301-713-2245
F/OMI2	Planning and Development Division	301-713-2252
F/OMI3	Information Management Division	301-713-2372
F/PR	**Office of Protected Resources --** Donald Knowles	301-713-2332
F/PRx1	Marine Biodiversity Team	301-713-2319
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401
F/SF	**Office of Sustainable Fisheries --** Clarence G. Pautzke, Acting	301-713-2334
F/SF1	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2276
F/SF5	Regulatory Services Division	301-713-2355
F/SF6	National Seafood Laboratory	301-713-2334
F/ST	**Office of Science and Technology --** William W. Fox, Jr.	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Research Analysis and Coordination Division	301-713-2363
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	**Office of Congressional Affairs - Fisheries --** Peter Hill	301-713-2263
PAF	**Office of Public Affairs - Fisheries --** Gordon Helm	301-713-2370
GCF	**Office of General Counsel - Fisheries --** Margaret Hayes	301-713-2231

NATIONAL MARINE FISHERIES SERVICE
REGIONAL FACILITIES

MAIL ROUTING CODE	OFFICE	TELEPHONE and FAX NUMBER	LOCATION
F/NER	**Northeast Region** **One Blackburn Drive** **Gloucester, MA 01930**	**978-281-9300** **Fax-281-9371**	**Gloucester, MA**
F/NEC3	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-495-2233 Fax-495-2232	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-2000 Fax-495-2258	Woods Hole, MA
	Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Milford Laboratory 212 Rigers Ave. Milford, CT 06460	203-579-7000 FAX-579-7070	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	732-872-3000 FAX-872-3088	Highlands, NJ
F/NEC3	Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-1896	Washington, DC
F/SER	**Southeast Region** **9721 Executive Center Drive, N.** **St. Petersburg, FL 33702**	**727-570-5301** **FAX-570-5300**	**St. Petersburg, FL**
F/SEC	Southeast Fisheries Science Center 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567	228-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	850-234-6541 FAX-235-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX

(Continued)

NATIONAL MARINE FISHERIES SERVICE
REGIONAL FACILITIES

MAIL ROUTING CODE	OFFICE	TELEPHONE and FAX NUMBER	LOCATION
F/SEC9	Beaufort Laboratory 101 Pivers Island Rd Beaufort, NC 28516	252-728-3595 FAX-728-8784	Beaufort, NC
F/NWR	**Northwest Region** **7600 Sand Point Way, N.E.** **BIN C15700, Bldg. 1** **Seattle, WA 98115**	**206-526-6150** **FAX-526-6426**	**Seattle, WA**
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	**Southwest Region** **501 West Ocean Blvd., Suite 4200** **Long Beach, CA 90802**	**562-980-4000** **FAX-980-4018**	**Long Beach, CA**
F/SWC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	858-546-7000 FAX-546-5655	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole Street, Rm. 106 Honolulu, HI 96822	808-983-5300 FAX-943-1248	Honolulu, HI
	Pacific Islands Area Office 1601 Kapiolani Blvd., Rm. 1110 Honolulu, HI 96814	808-973-2937 FAX-983-2900	Honolulu, HI
F/SWC3	Santa Cruz / Tiburon Laboratory 110 Shaffer Rd. Santa Cruz, CA 95060	415-435-3149 FAX-435-3675	Santa Cruz, CA
F/SWC4	Pacific Fisheries Environmental Group 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AKR	**Alaska Region** **709 West 9th Street, Room 453** **P.O. Box 21668** **Juneau, AK 99802**	**907-586-7221** **FAX-586-7249**	**Juneau, AK**
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. P.O. Box C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Laboratory 301 Research Court Kodiak, AK 99615	907-481-1700 FAX-481-1701	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

CITY	TELEPHONE NUMBER	NAME AND ADDRESS
NEW ENGLAND:		
(1) Portland	**207-780-3322 FAX:780-3340**	**Robert C. Morrill / Scott McNamara / Jessica Holton / Stephen Link, Marine Trade Center, Suite 212 Two Portland Fish Pier, Portland, ME 04101**
Boston	617-223-8015 FAX:223-8526	Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
	617-223-8012 FAX:223-8526	Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	**978-281-9304 FAX:281-9161**	**Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930**
Gloucester	978-281-9363 FAX:281-9372	Don Mason / William Heiskel1, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452 FAX:990-2506	Dennis E. Main / Sarah Pike, U.S. Custom House, 37 N. Second St., New Bedford, MA 02740
Chatham	508-945-5961 FAX:945-3793	Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
Woods Hole	508-495-2000 FAX:495-2258	John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Point Judith	401-783-7797 FAX:782-2113	Walter Anoushian, 83 State St., 2nd floor, P.O. Box 547, Narragansett, RI 02882
MIDDLE ATLANTIC AND CHESAPEAKE:		
New York	212-620-3405 FAX:620-3577	Leo Gaudin / R. Santangello, New York Market News, 201 Varick St. Rm. 701, New York, NY 10014
East Hampton	631-324-3569 FAX:324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	631-475-6988 FAX:289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O.Box 606 Patchoque, L.I., NY 11772
(1) Toms River	**732-349-3533 FAX:349-4319**	**Eugene Steady / Joanne Pellegrino, 26 Main St., P.O. Box 143, Toms River, NJ 08754**
Cape May	609-884-2113 FAX:884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
Ocean City	410-213-2761 FAX:213-7029	Ingo Fleming, 12904 Kelly Bridge Lane, P.O. Box 474, Ocean City, MD 21843
Hampton	757-723-3369 FAX:728-3947	David Ulmer / Steve Ellis / George Mattingly, 1926 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
SOUTH ATLANTIC AND GULF:		
(1) Beaufort	**252-728-8721 FAX:728-8772**	**Linda Hardy, Beaufort Laboratory, 101 Piver Island Rd., Beaufort, NC 28516**
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce, P.O. Box 2025, New Smynra Beach, FL 32170
Tequesta	561-575-4461 FAX:361-4565	H.Charles Schaefer / Michelle Gamby, 19100 S.E. Fedl. Highway, Tequesta, FL 33469
(1) Miami	**305-361-4468 FAX:361-4460**	**Guy S. Davenport / Pam Brown-Eyo, 75 Virginia Beach Dr., Miami, FL 33149**

(Continued)

NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

CITY	TELEPHONE NUMBER	NAME AND ADDRESS
SOUTH ATLANTIC AND GULF:		
Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Federal Bldg. Rm. 208, 301 Simington St. Key West, FL 33040
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Pascagoula	228-762-7402 FAX:769-9200	Rene Labadens / Charles Armstrong, 3209 Frederic St., P.O. Box Drawer 1207, Pascagoula, MS 39567
Chalmette	504-277-0365 / 0294 FAX:271-9150 / 0343	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suirte 208, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 115 Piciola Pkwy., (Galliano, LA), P.O.Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360
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Marrero	504-328-3225 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
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New Orleans	504-589-6151 504-589-6149	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Aransas Pass	361-758-0436 361-758-1043	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Brownsville/ Port Isabel	956-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownville, TX 78521
Freeport	979-233-4551 FAX: SAME	Michelle Padgett, Texas Gulf Bank, Suite 213, P.O.Box 2533, Freeport, TX 77542
(1) Galveston	**409-766-3705 / 3515 FAX:766-3543**	**Margot Hightower or W. Keith Roberts, 4700 Avenue U, Bldg. 30 Galveston, TX 77551**
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(1) Regional or area headquarters for statistics offices.

U.S. DEPARTMENT OF COMMERCE
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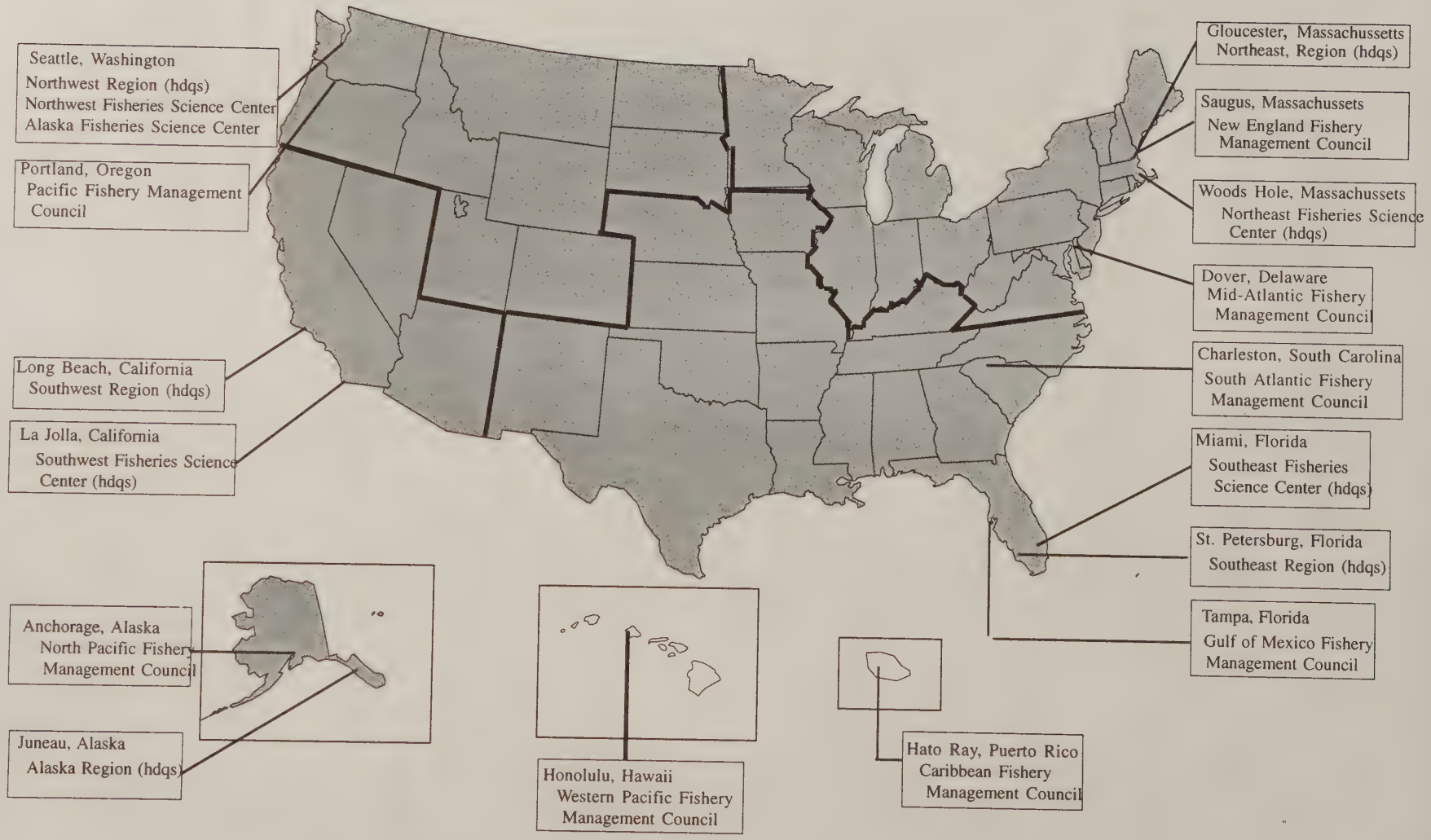

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PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

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Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/ST21), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

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CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

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1315 East-West Highway - Station 12340
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( ) FF - Frozen Fishery Products (Annual)
( ) FT - Imports and Exports of Fishery Products (Annual)

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 115), the originating office (code follows in parentheses - copies are available only as long as supply lasts), or the appropriate homepage

( ) A Guide to Tunas of the Western Atlantic Ocean, NMFS, 1997. 18 p. (SF)

( ) Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1998. (F/ST)

( ) Our Living Oceans - Report on The Economic Status of U.S. Fisheries, 1996. (F/ST)

( ) Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1995 Executive Summary. (F/ST)

( ) Protecting and Restoring Essential Fish Habitat. (F/HC)

( ) Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1997. (F/SF)

( ) The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/SF)

( ) The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage) Grants - Annotated Bibliography (F/SF)

( ) USDC Approved List of Fish Establishments and Products — Semi-Annual Report. (Documentation Approval and Supply Service, Pascagoula, MS., Phone: 228-762-1892)

Atlantic Striped Bass Studies: 1999 Biennial Report to Congress. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1999. Silver Spring, Maryland. 33 p. (Fx2)

Protecting Marine Mammals: Look from a Distance...but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

Recovery Plan for U.S. Pacific Population of the East Pacific Green Turtle (Chelonia mydas). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of the Green Turtle (Chelonia mydas). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of Hawksbill Turtle (Eretmocheys imbricata). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Leatherback Turtle (Dermochelys coriacea). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Population of the Loggerhead Turtle (Chelonia caretta). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for the Olive Ridley Turtle (Lepidochelys olivacea). National Marine Fisheries Service and the U.S. Fish and Wildlife Service, 1998. Silver Spring, MD (F/PR)

Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage)

Recreational Fishery Resources Conservation Plan, Accomplishment Report for FY1998. National Marine Fisheries Service, 1999. 75 p. Silver Spring, Maryland. (Fx2)

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

Year	Accession No.
1966	COM-75-10662
1967	COM-75-10663
1968	COM-75-10664
1969	COM-75-10665
1970	COM-71-50081
1971	COM-75-10666
1972	COM-73-50644
1973	COM-74-50546
1974	COM-75-10862
1975	PB-253966
1976	PB-268662
1977	PB-282741
1978	PB-297083
1979	PB-80-201593
1980	PB-81-241648
1981	PB-82-215542
1982	PB-83-216473
1983	PB-84-195148
1984	PB-86-144953
1985	PB-87-143145
1986	PB-88-164132
1987	PB-88-215173
1988	PB-89-216485
1989	PB-91-129-320
1990	PB-92-174523/AS
1991	PB-93-204536/AS
1992	PB-94-156387
1993	PB-95-219192

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession No.
1939	COM-75-11265
1940	COM-75-11266
1941	COM-75-11267
1942	COM-75-11268
1943	COM-75-11269
1944	COM-75-11270
1945	COM-75-11271
1946	COM-75-11272
1947	COM-75-11273
1948	COM-75-11274
1949	COM-75-11275
1950	COM-75-11056
1951	COM-75-11053
1952	COM-75-11054
1953	COM-75-11055
1954	COM-75-11057
1955	COM-75-11058
1956	COM-75-11059
1957	COM-75-11060
1958	COM-75-11061
1959	COM-75-11062
1960	COM-75-11063
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067

Fisheries Statistics of the United States *(continued)*

Year	Accession No.
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

HISTORICAL REPORTS:

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS:

Atlantic and Gulf Coast States, 1879 - 1989. Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266)

Atlantic and Gulf Coast States, 1950 - 1991. Current Fisheries Statistics No. 9210 - Historical Series No. 10- Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274)

IMPORTS AND EXPORTS OF FISHERY PRODUCTS

Annual Summary:

Year	Accession No.
1982	PB-92-218635
1983	PB-92-218643
1984	PB-92-214972
1985	PB-92-222280
1986	PB-92-228196
1987	PB-92-228055
1988	PB-92-222272
1989	PB-92-222264
1990	PB-92-222256
1991	PB-92-221803
1992	PB-95-219499
1993	PB-95-219481
1994	PB-95-219507

MARINE RECREATIONAL FISHING:

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Biennial Report to the President of the United States - Federal Agency Implementation of Executive Order 12962 - Recreational Fisheries. National Recreational Fisheries Coordination Council. 12p. 1998 (Fx2)

The NMFS-Specific Plan to Meet the Goals and Objectives of the Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 8p. 1997. (Fx2)

Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 16p. 1996. (Fx2)

MARINE RECREATIONAL FISHERY STATISTICS SURVEY:

Atlantic and Gulf Coasts:

Year	Accession No.
1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701
1987-1989	PB-92-174820
1990-1991	(F/ST1)

Pacific Coast:

Year	Accession No.
1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS
1987-1989	(F/ST1)

PROCESSED FISHERY PRODUCTS:

Annual Summary:

Year	Accession No.
1979	PB-89-215248/AS
1980	PB-89-215255/AS
1981	PB-89-215263/AS
1982	PB-89-215289/AS
1883	PB-89-215271/AS
1984	PB-89-215297/AS
1985	PB-89-215305/AS
1986	PB-89-215313/AS
1987	PB-92-172956
1988	PB-92-204528/AS

STATE LANDINGS:

Maine: 1946-76, PB-271-296; 1977-79, PB-128258.

Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.

Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.

New York: 1954-76, PB-275449; 1977-79, PB-81-134546.

New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048

Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.

Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.

North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.

South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.

Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.

Florida: 1950-76, PB-292068.

Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.

Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.

Louisiana: 1957-77, PB-300583; 1978, PB82-168063.

Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.

Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:
In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. World Swordfish Fisheries, is the most comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends. Work on the swordfish fisheries of the Atlantic States of Latin America is ongoing with major reports scheduled for release in 2000.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414 / GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No.PB-98-123425 /GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No.B-98-123433 / GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441/ GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No. PB-98-123458 / GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No.PB-98-123466 / GBA).

Volume V: North America. Overview of Canadian and U.S. Fisheries for Swordfish. 136 p. (NTIS No.PB-98-123474 / GBA).

Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No .PB-98-123482 / GBA).

World Fleet:
The Office of International Affairs, NMFS, prepared a six-volume study which analyzed trends in the world's distant-water fishing fleets. The subjects covered included catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures.

World Fishing Fleets: An Analysis of Distant-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/ GBA).

Volume I: Executive Summary. Overview of world distant-water fishing fleets and summary of regional trends. 54 p. (NTIS No. PB-94-140829 / GBA).

Volume IV: Latin America. Overview of Caribbean, Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852 / GBA).

Volume V: Baltic States, Commonwealth of Independent States, and Eastern Europe. Overview of each of these three blocs and 10 individual country studies including Russia, Poland, and Ukraine. 286 p. (NTIS No. PB-94-140860 / GBA).

Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878 / GBA).

World Shrimp and Salmon Culture Study:
A detailed overview of the salmon and shrimp culture industries in each of the primary producing countries of the world. The reports include information on species, areas developed, companies and farms, hatcheries, culture methods, research, harvests, exports, investments, environmental factors, trade, feed, and other subjects. The study was completed in 1992.

World Salmon Culture. This book provides detailed information about farmed salmon aquaculture around the world. A historical background is provided for all key farmed salmon producing nations. The work is carefully illustrated with graphs and statistical tables. An excellent resource for individuals seeking background information on salmon culture. 323 p. (NTIS No. PB-93-134617 / GBA).

World Shrimp Culture. Complete work is available in two volumes (Volume II. has 3 parts). Readers may also purchase individual parts separately. 1,152 p. (NTIS No. PB-93-134625 / GBA).

Volume I: Asia, Africa, Europe, the Middle East, and North America. Overview sections for Asia with reporting on shrimp culture in other countries.. 362 p. (NTIS No. PB-94-140878 / GBA).

Volume II. Latin America

Part I: This book includes a detailed Latin American overview and individual reports on the shrimp culture industry in the Caribbean island countries. 326 p. (NTIS No. PB93-134641/ GBA).

Part II: This book includes a brief summary of the shrimp culture industry in Central America as well as individual reports on Mexico and each Central American country. 356 p. (NTIS No. PB93-134658 / GBA).

Part III: This book includes a brief regional summary of shrimp culture in South America and individual reports on the shrimp culture industry of each South American country. 329 p. (NTIS No. PB93-134666 / GBA).

Publications

NORTHEAST REGION:

Northwest Atlantic Groundfish: Perspectives on a Fishery Collapse. Boreman, J., B.S, Nakashima, J.A. Wilson, and R.L. Kendall, eds. 1997. American Fisheries Society, Bethesda, MD. 242p. (F/NEC).

Status of Fishery Resources off the Northeastern United States for 1998. S.H. Clark, ed. 1998. (NOAA-TM-. NMFS-NE-115). 149 p. (F/NEC).

The History, Present Condition, and Future of the Molluscan Fisheries of North and Central America and Europe, 3 vols. MacKenzie, C.L.., Jr., V.G. Burrell, Jr., and W.L. Hobart, eds. 1997. (NOAA-Tech. Rep-NMFS-NE-128) (F/NEC).

U.S. Atlantic Marine Mammal Stock Assessments — 1998. Waring, G.T., D.L. Palka, P.J. Clapham, S. Swartz, M.C. Rossman, T.V.N. Cole, K.D. Bisack, and L.J. Hansen, 1999. (NOAA-TM-NMFS-NE-116) 182p. (F/NEC).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

SOUTHWEST REGION:

Demonstration and Evaluation of the Streak Tube Imaging LIDAR For Use in Bycatch Reduction. Griffis, Andrew J. (Administrative Report SWR-99-02) 104 p. (F/SWR).

Hawaiian Monk Seal Epidemiology Plan: Health Assessment and Disease Status Studies. Aguirre, A. A., J. S. Reif, and G. A. Antonelis. 1999. (NOAA-TM-NMFS-SWFSC-280). 69 p. (F/SWC).

The Kewalo Research Facility–leading the way for more than 40 years. Brill, R. W. (ed.). 1999. (NOAA-TM-NMFS-SWFSC-281). (F/SWC).

Long-Range Tuna School Detection Sonar System Design Specification, December 1997. Denny, Gerald F., Kenneth E. deVillerory, Patrick K. Simpson. (Administrative Report. SWR-98-01) 38 p. (F/SWR).

Marine Mammal Data Collected during a Survey in the Eastern Tropical Pacific Ocean aboard the NOAA Ships. McArthur and David Starr Jordan and the UNOLS Ship Endeavor July 31- December 9, 1998. Kinzey, D., T. Gerrodette, J. Barlow, A. Dizon, W. Perryman, P. Olson, and A. Von Saunder. 1999. (NOAA-TM-NMFS-SWFSC-283). 113 p. (F/SWC).

Proceedings of the Second International Pacific Swordfish Symposium. DiNardo, G. T. (ed.). 1999. (NOAA-TM-NMFS-SWFSC-263). 246 p. (NTIS No. PB99-166357INZ). (F/SWC).

Recent Developments in Population Viability Analyses, with Specific Reference to Pacific Salmon. Spencer, P. 1999. (NOAA-TM-NMFS-SWFSC-261). 30 p. (NTIS No. PB99-155426INZ).

Sebastes moseri (Scorpaeniformes: Scorpaenidae): A New Rockfish from the Eastern North Pacific. Eitner, B., C. Kimbrell, and R. Vetter. 1999. Copeia 1999(1):85–92. (F/SWC).

Shark Fisheries, Trade, and Market of Japan. Sonu, Sunee C., 1998. 70 p. (NOAA-TM-NMFS-SWR-033) (F/SWR)

The State of the California Current in 1998-1999: Transition to Cool-water Conditions. Hayward, T. L., T. R. Baumgartner, D. M. Checkley, R. Durazo, G. Gaxiola-Castro, K. D. Hyrenbach, A. W. Mantyla, M. M. Mullin, T. Murphree, F. B. Schwing, P. E. Smith, and M. J. Tegner. 1999. Calif. Coop. Oceanic Fish. Invest. Rep. 40:29–62. (F/SWC).

Tuna Fisheries, Trade, and Market of Japan. Sonu, Sunee C., 1999. (NOAA-TM-NMFS-SWR-034) 121 p. (F/SWR)

U.S. Pacific Marine Mammal Stock Assessments: 1999. Forney, K. A., M. M. Muto, and J. Baker. 1999. (NOAA-TM-NMFS-SWFSC-282). 62 p. (F/SWC).

Status Review of Coastal Cutthroat Trout from Washington, Oregon, and California. Johnson, O.W., M.H. Ruckelshaus, W.S. Grant, F.W. Waknitz, A.M. Garrett, G.J. Bryant, K. Neely, and J.J. Hard. 1999. (NOAA-TM-NMFS-NWFSC-37) 292 p. (NTIS PB99-140469)

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Intergovernmental and Recreational Fisheries - http://www.nmfs.noaa.gov/irf/irf.html — Provides information on the Atlantic Coastal Fisheries Cooperative Management Act, the Atlantic Striped Bass Conservation Act, the Interjurisdictional Fisheries Act, the Anadromous Fisheries Conservation Act, and Executive Order 12962 - on Recreational fisheries.

Protected Resources - http://nmfs.noaa.gov/prot_res/prot_res.html — Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Saltonstall-Kennedy Grant Program - http://www.nmfs.noaa.gov/sfweb/skhome.html — Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Northeast Region - http://www.nero.nmfs.gov/doc/nero.html — Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on northeast fisheries regulations, quota reports for specific species, multi-species preliminary statistics reports; scallop and multi-species days-at-sea activity reports; federal aid for MARFIN and SK grant programs; vessel permit system data; and links to other NOAA sites.

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Southeast Region - http://caldera.sero.nmfs.gov/ — Provides information on regional Federal activities including: fisheries regulations, news releases and fisheries bulletins, fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

Southeast Fisheries Science Center - http://www.sefsc.noaa.gov/ — Describes the Center's programs, mission, laboratories, geographic scope, organization, research vessels, and upper-level scientific and management staff. Includes publications, news releases, newsletters (tuna and billfish), and information on the types of research being conducted on Pacific and Antarctic fishes, marine mammals, sea turtles, habitats, and marine ecosystems.

Alaska Region - http://www.fakr.noaa.gov — Provides information on in-season state of groundfish catch, current news releases and information bulletins, and current fisheries outlook and effort reports. Information on the Community Development Quota (CDQ) Program, At-Sea Scales Program, fisheries regulations and the manual for Groundfish Recordkeeping and Reporting. Information on the Individual Fishing Quota (IFQ) Program, marine mammals, habitat conservation, and links to other fisheries web sites.

Alaska Fisheries Science Center - http://www.afsc.noaa.gov/ — Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries and marine mammal research in the coastal oceans off Alaska and the West Coast of the United States. Provides stock assessments, databases, AFSC Quarterly Report, cruise reports and schedules, other online documents, publication lists, image gallery of marine mammals, fishes, and crabs, and educational materials.

Northwest Region - http://www.nwr.noaa.gov — Provides information on the region's activities, mission and responsibilities. It includes news releases, announcements, documents and Federal Register notices about fisheries management plans, public hearings, programs, regulations, Endangered Species Act listings and proposals, habitat conservation, and regional hydro power activities.

Northwest Fisheries Science Center - http://research.nwfsc.noaa.gov/nwfsc-homepage.html — Describes Center research, including status and recovery of endangered salmon and new hatchery-rearing techniques; rapid-response analyzes of chemical pollution and harmful algae blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - http://swr.ucsd.edu — Describes the mission and responsibilities of the regional office. Announcements of Federal Register notices on seasons, trip limits, and quotas. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings and wholesale prices, etc., and links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - http://swfsc.ucsd.edu — Describes the Center's programs, mission, laboratories, geographic scope, organization, research vessels, and upper-level scientific and management staff. Includes publications, news releases, billfish newsletter, and information on the types of research being conducted on Pacific and Antarctic fishes, marine mammals, sea turtles, habitats, and marine ecosystems.

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Glossary

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EL NINO. This anomalous ocean warming of the eastern Equatorial Pacific occurs at time intervals

varying from 2-10 years. El Nino conditions result in an accumulation of warm water off South America which reduced the upwelling of nutrient-rich water necessary to support fisheries production. These conditions extended northward to the U.S. Pacific Coast. In addition to affecting the food available for fish, El Nino appears to alter the normal ranges, distributions, and migrations of fish populations.

EUROPEAN UNION. Austria, Belgium and Luxembourg, Denmark, Federal Republic of Germany, Finland, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom.

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance, and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded. etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species--Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWPs). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended. The Magnuson-Stevens Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other".

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MSFCMA (Magnuson-Stevens Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles)

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

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Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS,** published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFI mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFI mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.

USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:
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OFFICIAL BUSINESS